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October 31, 1969

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
October 31, 1969
Number 22

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
Associated documentation

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ACKNOWLEDGMENT

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

PLEASE GIVE COMPLETE BIBLIOGRAPHIC INFORMATION AS IT APPEARS IN THIS PUBLICATION FOR EACH ITEM REQUESTED.

This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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ENTOMOLOGY

SYSTEMATICS

12936-69
NEW FORMS OF LARVAE FROM STICTOCHIRONOMUS (DIPTERA, CHIRONOMIDAE) GENUS OBTAINED FROM RESERVOIRS. (RUS)
F Ahrorov
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1968 511 AK193D
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Araneida, Catalogs, Insect taxonomy, Zoogeography.

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THE SPECIES OF BLACK FLIES FOUND IN COLOMBIA (DIPTERA: SIMULIIDAE).
P Barreto
N Y Entomol Soc J 77(1):31-35
Mar 1969 420 N48J
Diptera, Host records, Insect taxonomy, Simuliidae, Zoogeography.

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D E Bright
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Insect biology, Insect taxonomy, Sciomyzidae.

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N A Kormilev
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Aradidae, Hemiptera, Insect taxonomy, Zoogeography.

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Jan 1969 420 EN822
Darkness, Insect survey, Light traps, Surveys. English abstract.

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S E Lewis
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Larvae, Leaf miners, Lepidoptera, Paleoentomology, Quercus.

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I I Lindt
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1968 511 AK193D
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S van der Merwe
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Jan 1968 421 N853
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Sep 1967 410 D94
Apoidea, Insect taxonomy, Zoogeography.

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M N Narzikulov
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1968 511 AK193D
Aphididae, Insect taxonomy, Zoogeography.

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M Ohno
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M C Parsons
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Aphelocheirus aestivalis, Heteroptera, Insect anatomy, Mouth parts, Naucoridae.

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Dryinidae, Insect taxonomy.

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W R Richards
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Aphididae, Insect pests, Insect taxonomy, Plants, Tuberculatus, Zoogeography.

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Bibliography, Hylemya brassicae, Hylemya florilega, Hylemya platura, Insect biology, Insect taxonomy. English abstract.

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K Sakimura
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Insect taxonomy, Neurisothrips, Thripidae.

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Catalogs, Insect morphology, Insect taxonomy, Platypodidae, Scolytidae, Zoogeography.

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C F Smith
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Aphididae, Coniferae, Insect taxonomy, Roots.

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O A Starkov S A Saiid-Aliev
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1968 511 AK193D
Insect taxonomy, Ixodidae, Parasitic insects, Reptilia, Zoogeography.

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Bacillus popilliae, Hemolymph, Insect diseases, Larvae, Milky disease, Scarabaeidae, Sporulation, Zoogeography.

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O Sterzl
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Insect biology, Insect taxonomy, Larvae, Lomamyia, Neuroptera.

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DESCRIPTIONS OF NEW SPECIES OF HYSTRICHOPSYLLID FLEAS WITH NOTES ON ARCHED PRONOTAL COMBS, CONVERGENT EVOLUTION AND ZOOGEOGRAPHY (SIPHONAPTERA).
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Insect evolution, Insect morphology, Insect taxonomy, Siphonaptera, Zoogeography.

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THE GENUS LOPHOTHYGATER MOURE AND MICHENER, 1955 (HYMENOPTERA-APOIDEA). (POR0)
D Urban
Dusenia 8(4):135-145 MAP
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Apoidea, Insect taxonomy, Zoogeography.

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A Vigna Taglianti
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Carabidae, Insect taxonomy, Zoogeography.

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DESCRIPTION OF THE LARVAE OF ZABRUS ORSINII (DEJ.) (COLEOPTERA, CARABIDAE). (IT)
V Vomero
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THE STRUCTURE AND AFFINITIES OF PENTATHEMIS MEMBRANULATA KARSH (ODONATA: CORDULIIDAE).
J A L Watson
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Corduliidae, Insect taxonomy.

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T R Yonke J T Medler
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R H Adams J H Young
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16 Jun 1969 421 J822
Chlorinated hydrocarbons, Cotton, Endrin, Heliothis zea, Insect pests, Insecticide resistant insects, Insecticides, Mortality.

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RESPONSE OF HELIOTHIS SPP. (LEPIDOPTERA: NOCTUIDAE) TO ULTRASOUND WHEN RESTING, FEEDING, COURTING, MATING, OR OVIPOSITING.
H R Agee
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Feeding, Heliothis, Insect behavior, Oviposition, Sex behavior, Sound waves.

13004-69
MATING BEHAVIOR OF BOLLWORM MOTHS.
H R Agee
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Heliothis zea, Insect behavior, Sex behavior.

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A COMPARISON OF THREE STRAINS OF ORYZAEPHILUS SURINAMENSIS (L.) (COL., SILVANIDAE) ON A TEMPERATURE--MOISTURE GRADIENT.
T G Amos S N Dennler
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Humidity, Insect morphology, Oryzaephilus surinamensis, Temperature.

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THE EFFECT OF RADIOACTIVE PHOSPHORUS ON THE DEVELOPMENT OF AEDES AEGYPTI LARVAE.
M Anwar L J Middleton
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Aedes aegypti, Insect eggs, Insect metabolism, Insect physiology, Larvae, Ovulation, Phosphorus isotopes, Radiobiology, Sterility.

13007-69
LEUCOPIS ALTICEPS CZERNY AS A PREDATOR SCALE INSECT (PARTHENOLECANIUM CORNI BOUCHE) AND EUROPEAN PEACH SCALE (PARTHENOLECANIUM PERSICAE F.) IN TADJIKISTAN. (RUS)
T Babayev
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FIELD AND LABORATORY STUDIES ON SEX RATIO IN IPS ACUMINATUS (COLEOPTERA: SCOLYTIDAE) IN NORWAY.
A Bakke
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Ips acuminatus, Pityogenes, Reproduction, Scolytidae, Sex.

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Crambus trisectus, Grasses, Insect eggs, Insect physiology, Insect rearing, Pupae, Temperature.

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THE RESPONSE OF A PREDATOR, HYPOASPIS ACULEIFER (CANESTRINI) (ACARINA:LAELAPIDAE), TO TWO SPEICES OF PREY.
P S Barker
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Glycyphagus domesticus, Hypoaspis aculeifer, Insect nutrition, Insect physiology, Laelapidae, Mites, Ovulation, Predaceous insects, Tyrophagus putrescentiae.

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STUDIES ON THE BIOLOGY OF MARGARODES VITIUM, A GROUND PEARL (HOMOPTERA: MARGARODIDAE) ON ROOTS OF GRAPEVINES.
M M Barnes M J Wargo A Marin
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Grapes, Insect biology, Margarodidae, Roots, Soilborne pests.

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THE EGG OF WYEOMYIA SMITHII (COQUILLETT) AND A REVIEW OF KNOWLEDGE OF THE EGGS OF THE SABETHINI.
A R Barr S Barr
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Jun 1969 421 M85
Eggs, Insect morphology, Wyeomyia.

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PHEROMONE CONCENTRATIONS REQUIRED TO ELICIT SUCCESSIVE STEPS IN THE MATING SEQUENCE OF MALES OF THE LIGHT-BROWN APPLE MOTH, EPIPHYAS POSTVITTANA.
R J Bartell H H Shorey
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15 Sep 1969 420 EN82
Epiphyas postvittana, Insect behavior, Insect physiology, Pheromones, Sex behavior.

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METABOLISM OF CHOLESTEROL-4-C14 IN INSECTICIDE-RESISTANT AND SUSCEPTIBLE STRAINS OF ASEPTICALLY REARED HOUSE FLIES, MUSCA DOMESTICA.
J W Bauer R E Monroe
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15 Sep 1969 420 EN82
Cholesterol, Insect biochemistry, Insecticide resistant insects, Metabolism, Musca domestica, Radioactive tracers.

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MOSQUITO CONTROL BY PREDATOR FISH.
E C Bay
Int Pest Contr 10(1):23-25
Jan 1968 79.8 P432
Biological control (insects), Culicidae, Fish, Pesticide residues, Predatory animals.

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COLOR PREFERENCE AND FLIGHT HABITS OF THRIPS ASSOCIATED WITH COTTON.
C M Beckham
J Econ Entomol 62(3):591-592 REF
16 Jun 1969 421 J822
Color, Cotton, Insect behavior, Insect flight, Insect pests, Thysanoptera.

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SOME PECULIARITIES AND NUMBERS IN TWO SPECIES OF EURYGASTER. (RUS0)
N G Bei-Bienko
Zool Zhur 48(6):836-840
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Insect biology, Population, Scelionidae. English abstract.

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LARVAL DIAPAUSE IN THE TICK IXODES RICINUS L. AND ITS RELATION TO EXTERNAL CONDITIONS. 7. ON THE SENSITIVITY TO PHOTOPERIODIC STIMULI DURING BLOOD-SUCKING. (RUS0)
V N Belozerov
Zool Zhur 48(5):686-691
May 1969 410 R92
Insect behavior, Insect physiology, Ixodes ricinus, Ixodides, Larvae, Photoperiodism. English abstract.

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THE INFLUENCE OF AGE AND CONCENTRATION OF FUMIGANT ON THE SUSCEPTIBILITY OF PUPAE OF TRIBOLIUM CASTANEUM (HERBST) (COLEOPTERA, TENEBRIONIDAE) TO METHYL BROMIDE.
R G Bennett
J Stored Prod Res 5(2):119-126
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Aging, Fumigants, Insecticide resistant insects, Methyl bromide, Pupae, Toxicology, Tribolium castaneum.

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ON THE COMPONENTS OF SECRETION OF MANDIBULAR GLANDS OF THE ANT LASIUS (DENDROLASIUS) FULIGINOSUS.
R Bernardi C Cardani D Ghiringhelli A Selva A Baggini M Pavan
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Chromatography, Dendrolasin, Formicidae, Lasius fuliginosus, Mandibular glands.

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R E Berry
Entomol Soc Amer Ann 62(5):1185-1189 REF
15 Sep 1969 420 EN82
Acyrthosiphon pisum, Aphidius, Field studies, Insect flight, Light, Surveys, Temperature.

13022-69
EFFECTS OF TEMPERATURE AND LIGHT ON TAKEOFF OF RHOPALOSIPHUM MAIDIS AND SCHIZAPHIS GRAMINUM IN THE FIELD (HOMOPTERA: APHIDIDAE).
R E Berry
Entomol Soc Amer Ann 62(5):1176-1184 REF
15 Sep 1969 420 EN82
Insect behavior, Insect flight, Light, Rhopalosiphum maidis, Schizaphis graminum, Temperature.

13023-69
SEX PHEROMONE OF TRYPODENDRON LINEATUM (COLEOPTERA: SCOLYTIDAE): PRODUCTION, BIO-ASSAY, AND PARTIAL ISOLATION.
J H Borden R G Brownlee R M Silverstein
Can Entomol 100(6):629-636 REF
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Biological assay, Chromatography, Insect biochemistry, Pheromones, Scolytidae, Sex attractants, Trypodendron lincatum.

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SEX PHEROMONE OF DENDROCTONUS PSEUDOTSUGAE (COLEOPTERA: SCOLYTIDAE): PRODUCTION, BIO-ASSAY, AND PARTIAL ISOLATION.
J H Borden R M Silverstein R G Brownlee
Can Entomol 100(6):597-603 REF
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Biological assay, Chromatography, Dendroctonus pseudotsugae, Insect biochemistry, Pheromones, Scolytidae, Sex attractants.

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STUDIES OF THE COCCOIDEA. I4. THE GENERA ASPIDIOTUS, DIASPIDIOTUS AND HEMIBERLESIA IN QUEENSLAND.
A R Brimblecombe
Queensland J Agr Anim Sci 25(1-2,MAR-JUN):39-56
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Aspidiotus, Catalogs, Coccoidea, Host range, Insect taxonomy, Zoogeography.

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A SYSTEM FAVORING THE EVOLUTION OF HOLOMETABOLOUS DEVELOPMENT.
E H Bryant
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15 Sep 1969 420 EN82
Development, Insect evolution, Insect migration, Population.

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THE PRODUCTIVITY OF FOUR INBRED STRAINS OF DROSOPHILA MELANOGASTER.
L Butler
Can J Zool 47(3):313-321 REF
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Drosophila melanogaster, Environment, Fertility, Insect genetics, Insect rearing, Reproduction, Yeasts.

13028-69
EFFECTS OF PLANT GROWTH REGULATORS ON LOCUSTS AND COTTON STAINER BUGS.
D B Carlisle P E Ellis D J Osborne
J Sci Food Agr 20(7):391-393 REF
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Chloroethyl)trimethylammonium chloride, (2-, Development, Gibberellic acid, Insect nutrition, Insect physiology, Locusta migratoria, Plant growth regulator, Schistocerca gregaria.

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INFLUENCE OF CLIMATIC CONDITIONS ON THE EFFECTIVENESS OF TREATMENTS AGAINST CRYPTORRHYNCHUS LAPATHI L. LARVAE. (IT)
B Cavalcaselle
Ente Naz Cell Carta Cent Sperim Agr Forest Pubbl 9(3):181-187 REF
1967 16 C332
Chemical control (insects), Climate, Cryptorhynchus lapathi, Diazinon, Environment, Larvae, Organophosphorus compounds, Parathion. English summary.

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COMPONENTS OF THE STERILITY INDUCED IN LATE-STAGE MALE PUPAE OF THE SUGARCANE GRAY BORER, EUCOSMA SCHISTACEANA (LEPIDOPTERA: OLETHREUTIDAE), WITH GAMMA RADIATION.
W Y Cheng
Entomol Soc Amer Ann 62(5):1106-1113 REF
15 Sep 1969 420 EN82
Gamma rays, Mutation, Olethreutidae, Pupae, Sterility.

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RETARDATION OF LARVAL DEVELOPMENT OF AEDES AEGYPTI (L.) BY THE VITAL DYE, NILE BLUE SULFATE (A).
B I Chevone T M Peters
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Jun 1969 421 M85
Aedes aegypti, Dyes, Histology, Insect physiology, Larvae, Metabolism.

13032-69
SLEEVE TESTS OF INSECTICIDAL POWDERS FOR CONTROL OF BODY LICE.
M M Cole J M Hirst J G McWilliams I H Gilbert
J Econ Entomol 62(1):198-200
17 Feb 1969 421 J822
Benzo(b)thien-4-yl methylcarbamate, Chemical control (insects), Dimethyl O-(4-(methylthio)-3,5-xylyl phosphorothioate, O, O, Dimethyl O-(4-nitro-m-tolyl) phosphorothioate, O,O-, Dimethyl-S-(5-ethoxy-1,3,4-thiadiazol-2(3H)-onyl-(3)-methy l, Dusting, Humans, Insecticides, Pediculus humanus humanus, Research.

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OBSERVATIONS ON PLATYPUS FLAVICORNIS (COLEOPTERA: PLATYPODIDAE) IN SOUTHERN PINE BEETLE INFESTATIONS.
J E Coster
Entomol Soc Amer Ann 62(5):1008-1011 REF
15 Sep 1969 420 EN82
Dendroctonus frontalis, Insect behavior, Insect flight, Platypus, Population, Surveys.

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NOTES ON THE OCCURRENCE OF ABNORMAL SCALE PATTERNS IN ADULT FEMALE AEDES VEXANS (MEIGEN).
W J Crans L J Gandek
Mosquito News 28(2):235-236
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Abnormalities, Aedes vexans, Culicidae, Insect morphology, Light traps, Scales (insects).

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IDENTIFICATION OF AN ALARM PHEROMONE IN THE ANT, CREMATOGASTER PERINGUEYI.
R M Crewe J M Brand D J C Fletcher
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Chromatography, Crematogaster peringueyi, Formicidae, Insect biochemistry, Insect protective devices, Pheromones.

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A STUDY OF THE CITRIC ACID CYCLE IN THE TICK HYALOMMA DROMEDARII.
R M Dajani G J Frayha G K Sweatman
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Hyalomma dromedarii, Insect biochemistry, Insect physiology, Ixodides, Tricarboxylic acid cycle.

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CONTROL TRIALS AGAINST THE BLACK PARLATORIA SCALE IN TRIPOLITANIA.
A Damiano
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Chemical control (insects), Citrus, Coccoidea, Insecticides, Parlatoria zizyphus, Spraying.

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FIELD PRESERVATION AND STORAGE OF MOSQUITOES FOR LABORATORY STUDIES.
J B Davies
Mosquito News 29(2):259
Jun 1969 421 M85
Culicidae, Field studies, Freezing, Insect preservation.

13039-69
SOME POPULATION PARAMETERS FOR THE GRAIN MITE, ACARUS SIRO.
R Davis S W Brown
Entomol Soc Amer Ann 62(5):1161-1166
15 Sep 1969 420 EN82
Acaridae, Acarus siro, Development, Eggs, Fertility, Hatching, Life cycle, Mortality, Population.

13040-69
IMPORTATION AND COLONIZATION OF NATURAL ENEMIES OF THE STRIPED MEALYBUG, FERRISIA VIRGATA, IN CALIFORNIA.
P DeBach S C Warner
Entomol Soc Amer Ann 62(5):1117-1119
15 Sep 1969 420 EN82
Biological control (insects), Coccinellidae, Encyrtidae, Pseudococcidae.

13041-69
POPULATION DYNAMICS, GROWTH, FEEDING AND REPRODUCTION OF DEROCERAS RETICULATUM IN THE LENINGRAD DISTRICT. (RUS0)
E F Dmitrieva
Zool Zhur 48(6):802-810
Jun 1969 410 R92
Deroceras reticulatum, Insect physiology, Population, Reproduction.

13042-69
THE SILKWORM EMBRYO. (RUS)
K Donev L Ovessenska
Priroda (Sofia) (3,MAY-JUN):63-65
Jun 1969 410 P934
Embryology, Embryos, Insect biology, Insect eggs, Bombyx mori.

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THE EFFECT OF PARENTAL TEMPERATURE UPON FILIAL EGG PERIOD IN DROSOPHILA MELANOGASTER.
E B Edney
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Jul 1969 410 P56
Aging, Drosophila melanogaster, Embryos, Insect eggs, Insect physiology, Temperature.

13044-69
ALPHITOBIUS DIAPERINUS PZ. (COL., TENEBRIONIDAE) IN BROILER HOUSES.
R Edwards
Entomol Mon Mag (SER.4)98(267-269):88
Mar 1962 421 EN86
Alphitobius diaperinus, Insect ecology, Laboratories, Tenebrionidae.

13045-69
ANTIBIOTICS AND INFECTIOUS HYBRID STERILITY IN DROSOPHILA PAULISTORUM.
L Ehrman
Z Vererbungslehre 103(3):218-222 REF
31 Dec 1968 442.8 Z34
Antibiotics, Drosophila paulistorum, Hybrids, Insect physiology, Sterility.

13046-69
THE INFLUENCE OF COLONY DENSITY AND OTHER FACTORS ON THE NUMBER OF OFFSPRING IN BLASTOPHAGUS PINIPERDA L. (COL., SCOLYTIDAE). (GE)
H H Eidmann M Nuorteva
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 34(3):135-148 REF
1968 421 SU7
Insect ecology, Insect reproduction, Population, Scolytidae, Statistical distributions, Tomicus piniperda.

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DEFENSIVE USE OF A FECAL SHIELD BY A BEETLE LARVA.
T Eisner VAN E Tassell J E Carrel
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15 Dec 1967 470 SCI2
Cassida rubiginosa, Chrysomelidae, Cirsium arvense, Cuticle, Feces, Formica exsectoides, Insect anatomy, Insect ecology, Insect protective devices, Larvae, Predaceous insects.

13048-69
PHYSIOLOGY OF THE LARGE MILKWEED BUG AFTER LASER IRRADIATION.
D Feir J W Lough
Compar Biochem Physiol 28(2):759-764
Feb 1969 444.8 C73
Insect biochemistry, Insect physiology, Irradiation, Lasers, Oncopeltus fasciatus.

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DIFFERENCES IN HYDROLASE ISOZYMES OF ITALIAN AND RHODESIAN STRAINS OF AEDES VITTATUS (BIGOT) (DIPTERA: CULICIDAE) AND THEIR HYBRIDS.
T A Freyvogel G A H McClelland
Roy Entomol Soc London Proc Ser A Gen Entomol 44(4-6):80-83
31 Jul 1969 420 L84PA
Aedes, Electrophoresis, Enzymes, Hydrolases, Insect biochemistry.

13050-69
A TECHNIQUE FOR TRANSFERRING NEWLY HATCHED LARVAE.
I E Gard
Entomol Soc Amer Ann 62(5):1211
15 Sep 1969 420 EN82
Insect rearing equipment, Larvae, Lepidoptera, Methodology.

13051-69
ENZYMATIC STUDIES ON THE HYDROXYLATION OF KYNURENINE IN DROSOPHILA MELANOGASTER.
D Ghosh H S Forrest
Genetics 55(3):423-431 REF
Mar 1967 442.8 G28
Drosophila melanogaster, Enzymes, Insect biochemistry, Kynurenine.

13052-69
THE RAMP-TRAP, AN UNBAITED DEVICE FOR FLIGHT STUDIES OF MOSQUITOES.
M T Gillies
Mosquito News 29(2):189-193 REF
Jun 1969 421 M85
Culicidae, Insect behavior, Insect flight, Insect traps.

13053-69
THE FEEDING AND FECUNDITY OF SITOPHILUS GRANARIUS (L.), SITOPHILUS ORYZAE (L.) AND RHYZOPERTHA DOMINICA (F.) IN WHEAT GRAIN.
Z Golebiowska
J Stored Prod Res 5(2):143-155 REF
Aug 1969 421 J829
Fertility, Food habits, Insect feeding, Rhyzopertha dominica, Sitophilus granarius, Sitophilus oryzae, Wheat.

13054-69
DISTRIBUTION OF AN ENDEMIC POPULATION OF THE GYPSY MOTH. (RUS0)
A V Golubev F N Semevsky
Zool Zhur 48(6):850-859
Jun 1969 410 R92
Forest insects, Insect biology, Population, Porthetria dispar, Zoogeography. English abstract.

13055-69
THE RECTAL GLANDS OF HALOSALDA LATERALIS (FALLEN) (HEMIPTERA: SALDIDAE) AND HYDROMETRA STAGNORUM (L.) (HEMIPTERA: HYDROMETRIDAE).
A J P Goodchild
Roy Entomol Soc London Proc Ser A Gen Entomol 44(4-6):62-70 REF
31 Jul 1969 420 L84PA
Glands (insects), Hydrometra, Insect physiology, Rectum, Saldidae.

13056-69
NOTE ON SALIVARY GLANDS IN MEGACHILE (MEGACHILIDAEAPOIDEA). (POR0)
V Graf
Dusenia 8(4):131-133
Sep 1967 410 D94
Insect morphology, Megachile, Salivary glands (insects). English abstract.

13057-69
NOTE ON THE VENEMOUS GLAND OF APOIDEA (HYMENOPTERA). (POR0)
V Graf
Dusenia 8(4):127-130
Sep 1967 410 D94
Apoidea, Glands (insects), Insect physiology, Venoms. English abstract.

13058-69
AGE GRADING OF MOSQUITOES FROM PARASITIC MITES.
P Graham
Mosquito News 29(2):259-260
Jun 1969 421 M85
Aging, Culicidae, Methodology, Mites, Parasitic insects.

13059-69
CULISETA SILVESTRIS MINNESOTAE BARR AND C. MORSITANS DYARI (COQUILLETT) (DIPTERA: CULICIDAE) IN ALBERTA.
P Graham
Mosquito News 29(2):261-262
Jun 1969 421 M85
Culicidae, Culiseta, Field studies, Hibernation.

13060-69
LABORATORY EVALUATION OF SOME ORGANOPHOSPHORUS COMPOUNDS AGAINST THE LARVAE OF AEDES (O.) DETRITUS (HALIDAY), AEDES (O.) CASPIUS (PALLAS) AND CULEX PIPIENS PIPIENS (L.)..
G Gras J A Rioux
Mosquito News 29(2):202-209 REF
Jun 1969 421 M85
Aedes, Aedes detritus, Carbamates, Chemical control (insects), Chlorinated hydrocarbons, Culex pipiens, Insecticides, Larvae, Organophosphorus compounds.

13061-69
SUPPRESSION OF POPULATIONS OF PINK BOLLWORMS IN FIELD CAGES WITH TRAPS BAITED WITH SEX ATTRACTANT.
A A Guerra R D Garcia M P Leal
J Econ Entomol 62(3):741-742 REF
16 Jun 1969 421 J822
Cotton, Insect behavior, Insect cages, Insect pests, Insect traps, Pectinophora gossypiella, Propylure, Sex attractants, Sex behavior.

13062-69
THE TEMPERATURE-SENSITIVE PERIOD IN THE DEVELOPMENT OF ROLLED HEMIZYGOTES OF DROSOPHILA MELANOGASTER.
R Hackman S Lakovaara
Suomalainen Tiedeakatemia Ann Ser A Iv Biol (111-120):3-13 REF
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Drosophila melanogaster, Eyes, Insect mutation, Insect physiology, Temperature. Above article located in issue 118 of this series.

13063-69
EFFECTS OF SUBSTRATES ON GENE-CONTROLLED ENZYME ACTIVITIES IN CULTURED EMBRYONIC CELLS OF DROSOPHILA.
M Horikawa L-N L Ling A S Fox
Genetics 55(3):569-583 REF
Mar 1967 442.8 G28
Drosophila, Enzymes, Insect biochemistry, Tissue culture.

13064-69
PURINE EXCRETION IN FIVE SCORPIONS, A UROPYGID AND A CENTIPEDE.
F R Horne
Biol Bull 137(1):155-160 REF
Aug 1969 442.8 B52
Chilopoda, Excretion, Insect biochemistry, Insect nutrition, Insect physiology, Purines, Scorpionida.

13065-69
ANION-INDUCED POTENTIATION OF CONTRACTION IN INSECT SKELETAL MUSCLE.
H Huddart
Compar Biochem Physiol 28(1):185-192 REF
Jan 1969 444.8 C73
Bio-electric potential, Bromides, Carausius morosus, Insect biochemistry, Insect physiology, Iodides, Ions, Muscles, Nitrates.

13066-69
DEVOURERS. (RUS)
M Jeliazova-Angelova
Priroda (Sofia) (3,MAY-JUN):61-62
Jun 1969 410 P934
Dasypogon, Insect behavior, Natural control (insects), Predaceous insects.

13067-69
USE OF THE SPRYTE FOR DITCHING IN SUBMARGINAL AREAS.
K Josephson
Utah Mosquito Abatement Ass Proc 1967 MEETING:22-23
Oct 1967 420 UT1
Breeding, Culicidae, Equipment, Spraying, Surveys. Proceedings of 20th Annual Meeting of Utah Mosquito Abatement Ass.

13068-69
STUDIES OF THE BYRON BOG IN SOUTHWESTERN ONTARIO XXXII. OBSERVATIONS ON THE SEASONAL DISTRIBUTION ON ODONATA IN THE BOG.
W W Judd
Entomol Soc Ontario Proc 98:45-48
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Aeshnidae, Bogs, Coenagrionidae, Environment, Lestidae, Libellulidae, Odonata, Seasonal variation, Zoogeography.

13069-69
LABORATORY EXPERIMENTS ON THE OLFACTORY ORIENTATION OF BLASTOPHAGUS PINIPERDA L. (COLEOPTERA, SCOLYTIDAE) TO SUBSTANCES ISOLATED FROM PINE RIND.
E Kangas V Perttunen H Oksanen M Rinne
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R W Kuhn R W Brosemer
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S B Lall
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Chemoreceptors, Food habits, Insect behavior, Insect physiology, Starvation, Tabanidae.

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R J Lavigne
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Formicidae, Insect nests, Population, Soil temperature.

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B L Lee M H Bass
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P Lenler-Eriksen
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Araneida, Insect behavior, Predaceous insects, Spider webs.

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H Lent J Jurberg
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A M Lucas
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P T M Lum B R Flaherty
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D M Maddox
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Insect morphology, Phycitidae, Pupae, Sex determination.

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V G Marshall
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R Mau W C Mitchell M Anwar
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Cobalt isotopes, Dosage, Gamma rays, Imagos, Insect behavior, Insect eggs, Mortality, Nezara viridula, Sex behavior.

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L K Miller
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M A Moussa P Nawarat
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Jun 1969 421 M85
Benzene hexachloride, Chlorinated hydrocarbons, Culex, Dieldrin, DDT, Insect biochemistry, Insecticide resistant insects, Insecticides.

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S N H Naqvi H Ashrafi M A H Qadri
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S Navai
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Ceratopogonidae, Culicoides, Gynandromorphism, Insect biology.

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J K Nayar
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AERIAL DISPERSAL OF SOME BRITISH PSOCOPTERA, AS INDICATED BY SUCTION TRAP CATCHES.
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J J Petersen H C Chapman O R Willis
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Biological control (insects), Culicidae, Mermithidae, Nematodes.

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D Pimentel F A Stone
Can Entomol 100(6):655-662
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Ecology, Insect evolution, Musca domestica, Nasonia vitripennis, Parasitic insects, Population, Pteromalidae.

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W L Putman
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Anesthesia, Humidity, Insect eggs, Insect physiology, Mites, Mortality, Nitrogen, Oxygen, Panonychus ulmi, Paralysis.

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J Ratusky K Slama F Sorm
J Stored Prod Res 5(2):111-117 REF
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Development, Dysdercus, Insect biochemistry, Juvenile hormone, Pyrrhocoris, Tenebrio.

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D E Reichle
Entomol Soc Amer Ann 62(5):1113-1117 REF
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Cobalt isotopes, Development, Eggs, Gamma rays, Insect physiology, Larvae, Psychidae, Thyridopteryx ephemeraeformis.

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LARVAL BEHAVIOR OF EUPSILIA MORRISONI.
R W Rings
Entomol Soc Amer Ann 63(3):544-549 MAP
May 1969 420 EN82
Insect behavior, Insect biology, Larvae, Noctuidae.

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R H Roberts
Mosquito News 29(2):236-238
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Attractants, Insect behavior, Insect biology, Livestock, Tabanidae.

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REGULATION OF EXTERNAL RESPIRATION BY THE BOOK-LUNG SPIRACLES OF THE SPIDERS, ARANEUS DIADEMATUS CLERCK AND A. MARMOREUS CLERCK.
G L Robinson V Paim
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Acrididae, Attractants, Color, Insect behavior, Phyteumas purpurascens.

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J A Schenk D M Benjamin
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Hibernation, Insect biology, Insect rearing, Ips pini.

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H Scherf
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Chrysomelidae, Morphology, Pupal cases.

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H Schildknecht W F Wenneis
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A W Schlorger
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Apiculture, Apis mellifera, History. Transactions is listed as 1967-68 to conform with year of publication.

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J Cell Biol 42(2):603-606 REF
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Anopheles stephensi, Chromosomes, Diploid, Insect physiology, Tissue culture.

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E M Shagov
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Hibernation, Insect biology, Insect physiology, Perillus bioculatus. English abstract.

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M L Sharma R Lavidlette
Entomol Soc Quebec Ann 13(2):89-97 MAP
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Aphididae, Coccinellidae, Pinus resinosa, Population. English abstract.

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R K Sharma H H Shorey
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15 Sep 1969 420 EN82
Abnormalities, Insect morphology, Pupae, Tribolium confusum.

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T N Shaver M J Lukefahr
J Econ Entomol 62(3):643-646 REF
16 Jun 1969 421 J822
Cotton, Flavonoids, Gossypol, Heliothis virescens, Heliothis zea, Insect nutrition, Insect pests, Insect physiology, Pectinophora gossypiella, Pigments (plant).

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M P Shinkle
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Anopheles, Insect morphology, Methodology, Mouth parts, Surgical procedures.

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DISEASES OF THE CLEAR LAKE GNAT CHAOBORUS ASTICTOPUS (DIPTERA: CHAOBORIDAE).
P P Sikorowski C H Madison
Mosquito News 28(2):180-187
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Bacterial diseases (insects), Biological control (insects), Catalogs, Chaoborus astictopus, Insect diseases, Protozoa, Virus diseases.

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H B Specht
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MINORITY ADVANTAGE IN INTERPOPULATIONAL MATINGS OF DROSOPHILA PERSIMILIS.
L D Spiess E B Spiess
Amer Natur 103(930,MAR-APR):155-172 REF
30 Apr 1969 470 AM36
Drosophila, Insect behavior, Mutation, Population, Sex behavior.

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OVERWINTERING BY PROTOCALLIPHORA METALLICA (DIPTERA: CALLIPHORIDAE).
F M Stiner
Entomol Soc Amer Ann 62(5):1205
15 Sep 1969 420 EN82
Calliphoridae, Hibernation, Insect biology.

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THE EVALUATION OF ASSIMILABILITY OF DIFFERENT LEAF-LITTERS BY MILLIPEDES (DIPLOPODA). (RUS0)
B R Striganova
Zool Zhur 48(6):821-826
Jun 1969 410 R92
Diplopoda, Insect metabolism, Insect nutrition. English abstract.

13134-69
MOSQUITOES AND HABENARIA OBTUSATA (ORCHIDACEAE).
L B Thien
Mosquito News 29(2):252-255
Jun 1969 421 M85
Aedes, Biology, Culicidae, Insect pollinators, Orchidaceae.

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ARTHROPODA ASSOCIATED WITH A NEST OF THE HAWAIIAN CROW.
P Q Tomich
Hawaii Entomol Soc Proc 19(3):431-432
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Arthropoda, Bird pests, Crows, Insect ecology, Insect pests, Mites, Predaceous insects.

13136-69
CHEMICAL SUBSTANCES FOR DEFENSE OF INSECTS. (RUS)
V Tomov
Priroda (Sofia) (3,MAY-JUN):67-70
Jun 1969 410 P934
Insect behavior, Insect biochemistry, Insect protective devices, Secretions, Tenebrionidae.

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BIOCHEMICAL EFFECTS OF APHOLATE ON MOSQUITO OVARIAN TISSUE.
R B Turner N P Maheswary
Entomol Soc Amer Ann 62(5):1091-1095
15 Sep 1969 420 EN82
Aedes aegypti, Alkaline phosphatase, Apholate, Ficalbia, Insect biochemistry, Insect physiology, Ovaries.

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RESEARCH ON THE ACARICIDE EFFECT OF SOME ANTI MILDEW PRODUCTS. (IT)
A Ugolini G Rapparini
Giornate Fitopatol 399-400
26 Mar 1967 SB599.G5

Acaricides, Chemical control (insects), Chemical control (plant diseases), Dinocap, Erysiphe cichoracearum, Fungicides, Mildew, Tetranychus urticae. Other, less effective products are tested.

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AN EXPERIMENTAL STUDY OF THE MORTALITY FACTORS OF LARVAL MUSCA AUTUMNALIS DEGREER.
I Valiela
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Insect eggs, Larvae, Mortality, Musca autumnalis, Temperature.

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TWO SPECIES OF PTERONEMOBIUS PREVIOUSLY UNREPORTED IN QUEBEC (ORTHOPTERA: ENSIFERA: GRYLLOIDEA: NEMOBIINAE).
V R Vickery
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Jan 1969 420 EN822
Gryllidae, Insect behavior, Insect ecology, Zoogeography. English abstract.

13141-69
THE INFLUENCE OF ABIOTIC FACTORS UPON THE DISTRIBUTION AND ABUNDANCE OF EGG PARASITES OF THE EURYGASTER INTEGRICEPS (HYMENOPTERA, SCELIONIDAE). (RUS0)
G A Viktorov
Zool Zhur 48(6):841-849
Jun 1969 410 R92
Eurygaster integriceps, Insect biology, Insect eggs, Parasitic insects, Scelionidae, Zoogeography. English abstract.

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ELECTROPHORETIC STUDY OF PROTEIN CHANGES BETWEEN SEVERAL DEVELOPMENTAL STAGES OF THREE SPECIES OF HELIOTHIS (LEPIDOPTERA: NOCTUIDAE).
S B Vinson W J Lewis
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Jan 1969 444.8 C73
Electrophoresis, Heliothis, Hemolymph, Insect biochemistry, Insect morphology, Insect physiology, Metamorphosis, Noctuidae, Proteins.

13143-69
COLONIZATION OF CULISETA MELANURA (COQUILLETT) IN THE LABORATORY.
R C Wallis L Whitman
Mosquito News 29(2):255-258 REF
Jun 1969 421 M85
Culicidae, Culiseta melanura, Insect rearing, Insect vectors.

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ELECTROPHORETIC PATTERNS IN MOSQUITOES.
M E Warren O P Breland
Mosquito News 29(2):172-182 REF
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Culicidae, Electrophoresis, Insect biochemistry, Proteins.

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THE TURNOVER RATIO IN PRODUCTION ECOLOGY OF FRESHWATER INVERTEBRATES.
T F Waters
Amer Natur 103(930,MAR-APR):173-185 REF
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Aquatic animals, Aquatic insects, Ecology, Invertebrates, Population, Statistical analysis.

13146-69
TABANID LARVAL HABITATS AND POPULATION DENSITIES IN AN ALLUVIAL AREA IN SOUTHERN LOUISIANA.
B H Wilson
Entomol Soc Amer Ann 62(5):1203-1204
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Insect ecology, Larvae, Population, Tabanus.

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LIFE HISTORY, HABITS, AND DAMAGE OF A GALL MIDGE, OLIGOTROPHUS PAPYRIFERAE (DIPTERA: CECIDOMYIIDAE), INJURIOUS TO PAPER BIRCH IN MICHIGAN.
L F Wilson
Can Entomol 100(6):663-669
Jun 1968 421 C16
Betula papyrifera, Cecidomyiidae, Curculionidae, Gall-making insects, Insect behavior, Insect biology, Insect pests, Olethreutidae, Oligotrophus papyriferae, Plant galls, Plant injuries.

13148-69
LABORATORY STUDIES ON THE DEVELOPMENT PERIOD AND FEEDING BEHAVIOR OF APHIDECTA OBLITERATA (L.) (COLEOPTERA: COCCINELLIDAE), AN INTRODUCED PREDATOR OF THE BALSAM WOOLLY APHID.
J A Witter
Entomol Soc Amer Ann 62(5):1004-1008
15 Sep 1969 420 EN82
Adelges piceae, Aphidecta obliterata, Eggs, Food habits, Insect biology, Population, Predaceous insects.

13149-69
LABORATORY STUDIES ON THE SEASONAL HATCHABILITY OF EGG BATCHES OF AEDES SOLLICITANS, A. TAENIORHYNCHUS, AND PSOROPHORA CONFINNIS.
D B Woodard H C Chapman J J Petersen
Mosquito News 28(2):143-146
Jun 1968 421 M85
Aedes sollicitans, Aedes taeniorhynchus, Culicidae, Hatching, Insect biology, Insect ecology, Insect eggs, Psorophora confinnis, Seasonal variation.

13150-69
IMMATURE STAGES OF THE FLESH FLY, PARASARCOPHAGA (THOMSONEA) ARGYROSTOMA (ROBINEAU-DESVOIDY).
J R Yates
Hawaii Entomol Soc Proc 19(3):433-440
Jun 1967 420 H312
Insect behavior, Insect biology, Insect morphology, Insect physiology, Larvae, Pupae, Sarcophaga argyrostoma.

13151-69
CORPOPHAGOUS INSECTS IN SOIL-BIOLOGICAL PROCESSES. (RUS)
B Zaharieva-Stoilova
Priroda (Sofia) (3,MAY-JUN):65-67
Jun 1969 410 P934
Feces, Livestock, Scarabaeidae, Soil biology.

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13152-69
MOSAIC MUTATIONS INDUCED IN DROSOPHILA BY ETHYLENIMINE.
M L Alexander
Genetics 56(2):273-281 REF
Jun 1967 442.8 G28
Drosophila, Ethylenimine, Insect genetics, Mutations.

13153-69
EFFECT OF THE ABSENCE OF THE Y CHROMOSOME ON THE EXPRESSION OF THE CUBITUS INTERRUPTUS PHENOTYPE IN VARIOUS TRANSLOCATIONS IN DROSOPHILA MELANOGASTER.
N Altorfer
Genetics 55(4):755-767 REF
Apr 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Genes, Insect genetics.

13154-69
THE REGIONAL EFFECTS OF TWO MUTANTS IN DROSOPHILA ANALYZED BY MEANS OF MOSAICS.
N Arnheim
Genetics 56(2):253-263 REF
Jun 1967 442.8 G28
Drosophila, Insect genetics, Mutation.

13155-69
LACK OF EFFECT OF A PREVIOUS MEIOTIC EXCHANGE ON SOMATIC CROSSING OVER IN DROSOPHILA.
W K Baker J A Swatck
Genetics 55(1):101-105
Jan 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Meiosis.

13156-69
AUTOSOMAL HALF-TETRAD ANALYSIS IN DROSOPHILA MELANOGASTER.
M Baldwin A Chovnick
Genetics 55(2):277-293 REF
Feb 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics.

13157-69
RADIATION INDUCED TANDEM DUPLICATIONS IN DROSOPHILA MELANOGASTER.
H A Bender
Genetics 55(2):249-254 REF
Feb 1967 442.8 G28
Cytogenetics, Drosophila melanogaster, Insect genetics, Radiation.

13158-69
DISTRIBUTION OF DNA IN HETEROCHROMATIN AND EUCHROMATIN OF POLYTENE NUCLEI OF DROSOPHIA HYDEI.
H D Berendes H G Keyl
Genetics 57(1):1-13 REF
Sep 1967 442.8 G28
Autoradiography, Chromatin, Cytology, Deoxyribonucleic acid, Drosophila hydei, Insect biochemistry, Insect genetics.

13159-69
EVIDENCE FAVORING A FRAME SHIFT MECHANISM FOR ICR-170 INDUCED MUTATIONS IN DROSOPHILA MELANOGASTER.
E A Carlson R Sederoff M Cogan
Genetics 55(2):295-313 REF
Feb 1967 442.8 G28
Drosophila melanogaster, Insect genetics, Mutation.

13160-69
SELECTION FOR PARTHENOGENESIS IN DROSOPHILA MERCAPTORUM.
H L Carson
Genetics 55(1):157-171 REF
Jan 1967 442.8 G28
Drosophila, Insect genetics, Parthenogenesis.

13161-69
PERSISTENCE OF A MUTANT GENE IN DROSOPHILA POPULATIONS OF DIFFERENT GENETIC BACKGROUNDS.
Y J Chung
Genetics 57(4):957-967
Dec 1967 442.8 G28
Drosophila melanogaster, Genes, Insect genetics, Insect mutation, Insect rearing.

13162-69
PATTERNS OF ABDOMINAL TERGITE BRISTLES IN WILD-TYPE AND SCUTE DROSOPHILA MELANOGASTER.
J H Claxton
Genetics 55(3):525-545 REF
Mar 1967 442.8 G28
Development, Drosophila melanogaster, Insect genetics.

13163-69
MEASUREMENT OF EFFECTIVE GENERATION LENGTH IN DROSOPHILA POPULATION CAGES.
J F Crow Y J Chung
Genetics 57(4):951-955
Dec 1967 442.8 G28

Drosophila melanogaster, Insect genetics, Insect rearing, Population.

13164-69
AN ANALYSIS OF RADIATION-INDUCED VARIATION ON BODY-WEIGHT OF HABROBRACON JUGLANDIS.
M A Dalcbroux K-I Kojima
Genetics 55(2):315-328
Feb 1967 442.8 G28
Habrobracon, Insect genetics, Radiation.

13165-69
CLOSE LINKAGE OF EYE COLOR GENES IN TRIBOLIUM CASTANEUM.
A A Dewees A E Bell
Genetics 56(4):633-640 REF
Aug 1967 442.8 G28
Eyes, Genes, Insect genetics, Tribolium castancum.

13166-69
AN EXPERIMENT ON MIGRATION AND SIMULTANEOUS SELECTION FOR SEVERAL TRAITS IN DROSOPHILA PSEUDOOBSCURA.
T Dobzhansky B Spassky
Genetics 55(4):723-734
Apr 1967 442.8 G28
Drosophila pseudoobscura, Insect genetics, Insect migration.

13167-69
EXPERIMENTS ON THE INCIPIENT SPECIES OF THE DROSOPHILA PAULISTORUM COMPLEX.
T Dobzhansky O Pavlovsky
Genetics 55(1):141-156 MAP REF
Jan 1967 442.8 G28
Drosophila paulistorum, Insect evolution, Zoogeography.

13168-69
SELECTION AND THE EFFECT OF TEMPERATURE ON SCUTELLAR BRISTLE NUMBER IN DROSOPHILA.
M Druger
Genetics 56(1):39-47 REF
May 1967 442.8 G28
Development, Drosophila, Genes, Insect genetics, Temperature.

13169-69
AN ABNORMAL SEX RATIO IN DROSOPHILA SIMULANS.
S H Faulhaber
Genetics 56(1):189-213 REF
May 1967 442.8 G28
Drosophila simulans, Insect genetics, Population.

13170-69
CROSSING-OVER BETWEEN HETEROZYGOUS INVERSIONS AND ITS RELATION WITH POLYMORPHISM IN DROSOPHILA WILLISTONI.
Z M Franca A B da Cunha
Rev Brasil Biol 28(4):495-497
Dec 1968 442.8 R326
Chromosomes, Drosophila, Insect genetics, Polymorphism.

13171-69
GENETIC EVIDENCE OF ELIMINATION OF CHROMOSOMES IN THE HESSIAN FLY.
R L Gallun J H Hatchett
Entomol Soc Amer Ann 62(5):1095-1101
15 Sep 1969 420 EN82
Chromosomes, Insect genetics, Mayetiola destructor, Wheat.

13172-69
CROSSING OVER IN A REVERSED ACROCENTRIC COMPOUND X CHROMOSOME OF DROSOPHILA MELANOGASTER.
R C Gethmann
Genetics 55(4):673-679 REF
Apr 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics.

13173-69
THE GENETICS OF A MUTABLE GENE AT THE WHITE LOCUS OF DROSOPHILA MELANOGASTER.
M M Green
Genetics 56(3, PART 1):467-482 REF
Jul 1967 442.8 G28
Drosophila melanogaster, Genes, Insect genetics.

13174-69
COMPLEMENTATION OF GENETIC ACTIVITY IN TRANSLOCATED FRAGMENTS OF THE Y CHROMOSOME IN DROSOPHILA HYDEI.
O Hess
Genetics 56(2):283-295 REF
Jun 1967 442.8 G28
Chromosomes, Drosophila hydei, Insect genetics.

13175-69
GENETIC ACTIVITIES OF THE Y CHROMOSOME IN DROSOPHILA DURING SPERMATOGENESIS.
O Hess G F Meyer
Advances Genet 14:171-223 REF
1968 443 D39
Chromosomes, Cytogenetics, Drosophila, Insect genetics, Spermatogenesis.

13176-69
DEVIANT SEX RATIO ASSOCIATED WITH SEGREGATION DISTORTION IN DROSOPHILA MELANOGASTER.
Y Hiraizumi K Nakazima
Genetics 55(4):681-697 REF
Apr 1967 442.8 G28
Drosophila melanogaster, Insect genetics, Meiosis.

13177-69
PURINE CATABOLISM IN DROSOPHILA MELANOGASTER. II. GUANINE DEAMINASE, INOSINE PHOSPHORYLASE AND ADENOSINE DEAMINASE ACTIVITIES IN MUTANTS WITH ALTERED XANTHINE DEHYDROGENASE ACTIVITIES.
L D Hodge E Glassman
Genetics 57(3):571-577 REF
Nov 1967 442.8 G28
Drosophila melanogaster, Enzymes, Insect genetics, Insect metabolism, Insect mutation, Phosphorylases, Purines, Spectrophotometry, Xanthine dehydrogenase.

13178-69
PROTEIN DIFFERENCES IN DROSOPHILA. III. ALLELIC DIFFERENCES AND SPECIES DIFFERENCES IN INVITRO HYBRID ENZYME FORMATION.
J L Hubby S Narise
Genetics 57(2):291-300 REF
Oct 1967 442.8 G28
Alleles, Drosophila pseudoobscura, Electrophoresis, Enzymes, Hybrids, Insect biochemistry, Insect genetics, Proteins.

13179-69
MUTAGENESIS AT A COMPLEX LOCUS IN DROSOPHILA WITH THE MONOFUNCTIONAL ALKYLATING AGENT, ETHYL METHANESULFONATE.
J B Jenkins
Genetics 57(4):783-793 REF
Dec 1967 442.8 G28
Chromosomes, Drosophila, Ethyl methanesulfonate, Insect genetics, Insect mutation, Insect rearing.

13180-69
SPERMATOGONIAL CROSSING OVER IN DROSOPHILA MELANOGASTER AND DROSOPHILA ANANASSAE.
P G Kale
Genetics 55(2):255-262
Feb 1967 442.8 G28
Drosophila ananassae, Drosophila melanogaster, Insect genetics, Spermatogenesis.

13181-69
THE GENETIC ARCHITECTURE OF BODY WEIGHT AND EGG HATCHABILITY IN DROSOPHILA MELANOGASTER.
M J Kearsey K-I Kojima
Genetics 56(1):23-37 REF
May 1967 442.8 G28
Drosophila melanogaster, Insect genetics.

13182-69
COMPARISON OF FREQUENCY DISTRIBUTIONS OF VIABILITIES OF SECOND WITH FOURTH CHROMOSOMES FROM CAGED DROSOPHILA MELANOGASTER.
A Kenyon
Genetics 55(1):123-130
Jan 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Viability.

13183-69
INTERACTION IN FITNESS BETWEEN LETHAL GENES IN HETEROZYGOUS CONDITION IN DROSOPHILA MELANOGASTER.
O Kitagawa
Genetics 57(4):809-820 REF
Dec 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Genes, Insect genetics, Lethal factor.

13184-69
THE SALIVARY GLAND CHROMOSOMES OF ANOPHELES ATROPOS.
R D Kreutzer S L Narang J B Kitzmiller
Mosquito News 29(2):223-230
Jun 1969 421 M85
Anopheles, Chromosomes, Cytogenetics, Salivary glands.

13185-69
CHROMOSOMAL FRAGMENTS TRANSMITTED THROUGH THREE GENERATIONS IN ONCOPELTUS (HEMIPTERA).
L E LaChance M Degrugillier
Science 166(3902):235-236
10 Oct 1969 470 SCI2
Chromosomes, Insect genetics, Insect mutation, Lygaeidae, Oncopeltus fasciatus, Sterility.

13186-69
THE RELATION OF GERM LINE MOSAICISM TO SOMATIC MOSAICISM IN DROSOPHILA.
W R Lee C J Kirby C W Debney
Genetics 55(3):619-634 REF
Mar 1967 442.8 G28
Chromosomes, Drosophila, Insect genetics, Insect mutation.

13187-69
STERILITY, CHROMOSOMAL BREAKAGE, X-RAY-INDUCED MUTATION RATES AND DETECTED MUTATION FREQUENCIES IN DROSOPHILA MELANOGASTER.
G Lefevre
Genetics 55(2):263-276
Feb 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Mutation, Sterility, X-rays.

13188-69
DIRECTIONAL SELECTION FOR DURATION OF COPULATION IN DROSOPHILA MELANOGASTER.
I T MacBean P A Parsons
Genetics 56(2):233-239
Jun 1967 442.8 G28
Drosophila melanogaster, Insect genetics, Sex behavior.

13189-69
GENETIC LOADS AFFECTING FERTILITY IN NATURAL POPULATIONS OF DROSOPHILA PSEUDOOBSCURA.
D Marinkovic
Genetics 57(3):701-709
Nov 1967 442.8 G28

Chromosomes, Drosophila pseudoobscura, Fertility, Insect genetics, Population.

13190-69
GENETIC LOADS AFFECTING FECUNDITY IN NATURAL POPULATIONS OF DROSOPHILA PSEUDOOBSCURA.
D Marinkovic
Genetics 56(1):61-71 REF
May 1967 442.8 G28
Drosophila melanogaster, Insect genetics, Population.

13191-69
THE INITIATION OF NONHOMOLOGOUS CHROMOSOME PAIRING BEFORE EXCHANGE IN FEMALE DROSOPHILA MELANOGASTER.
J R Merriam
Genetics 57(2):409-425 REF
Oct 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Meiosis, Pairings.

13192-69
SOME INTERACTIONS OF CROSSVEINLESS-LIKE GENES IN DROSOPHILA MELANOGASTER.
J D Mohler
Genetics 57(1):65-77 REF
Sep 1967 442.8 G28
Drosophila melanogaster, Genes, Insect genetics, Polymorphism.

13193-69
REVERSAL OF HETEROCHROMATIZATION AND THE ACTIVITY OF THE PATERNAL CHROMOSOME SET IN THE MALE MEALY BUG.
U Nur
Genetics 56(3, PART 1):375-389 REF
Jul 1967 442.8 G28
Chromosomes, Cytogenetics, Insect genetics, Planococcus citri, Pseudococcidae.

13194-69
AN ANALYSIS OF GENE-ENZYME VARIABILITY IN NATURAL POPULATIONS OF DROSOPHILA MELANOGASTER AND D. SIMULANS.
S J O'Brien R J MacIntyre
Amer Natur 103(930,MAR-APR):97-113 REF
30 Apr 1969 470 AM36
Drosophila melanogaster, Drosophila simulans, Electrophoresis, Enzymes, Genes, Insect genetics, Polymorphism, Population.

13195-69
AN EXPERIMENTAL EXAMINATION OF RESTRICTED SELECTION INDEX, USING TRIBOLIUM CASTANEUM. I. THE RESULTS OF TWO-WAY SELECTION.
I Okada R T Hardin
Genetics 57(2):227-236 REF
Oct 1967 442.8 G28
Insect genetics, Insect rearing, Larvae, Tribolium castaneum.

13196-69
RESISTANCE OF CULEX TRITAENIORHYNCHUS GILES AND CULEX QUINQUEFASCIATUS SAY TO MALATHION ON OKINAWA WITH NOTES ON SUSCEPTIBILITY TO OTHER INSECTICIDES.
N E Pennington
Mosquito News 28(2):193-198
Jun 1968 421 M85
Culex quinquefasciatus, Culex tritaeniorhynchus, Insecticide resistant insects, Malathion, Organophosphorus compounds, Zoogeography.

13197-69
CHROMOSOME INTERACTIONS IN DROSOPHILA ROBUSTA.
S Prakash
Genetics 57(2):385-400 REF
Oct 1967 442.8 G28
Chromosomes, Drosophila robusta, Genes, Insect genetics.

13198-69
ASSOCIATION BETWEEN MATING SPEED AND FERTILITY IN DROSOPHILA ROBUSTA.
S Prakash
Genetics 57(3):655-663
Nov 1967 442.8 G28
Drosophila robusta, Fertility, Insect behavior, Insect genetics, Insect rearing, Sex behavior.

13199-69
THEORY OF ALLELISM BETWEEN DROSOPHILA LETHALS COLLECTED AT DIFFERENT TIMES.
T Prout
Genetics 56(4):659-666
Aug 1967 442.8 G28
Drosophila, Genes, Insect genetics.

13200-69
A POSITIVE CORRELATION BETWEEN CROSSING OVER WITHIN HETEROZYGOUS PERICENTRIC INVERSIONS AND REDUCED EGG HATCH OF DROSOPHILA FEMALES.
P A Roberts
Genetics 56(1):179-187 REF
May 1967 442.8 G28
Chromosomes, Cytogenetics, Drosophila, Hatching, Insect genetics.

13201-69
DNA REPLICATION IN SALIVARY GLAND NUCLEI OF DROSOPHILA MELANOGASTER AT SUCCESSIVE LARVAL AND PREPUPAL STAGES.
T C Rodman
Genetics 55(3):375-386 REF
Mar 1967 442.8 G28
Drosophila melanogaster, Insect genetics, Larvae, Nucleic acids, Pupae, Salivary glands, Synthesis.

13202-69
RECESSIVE LETHALS IN SECOND CHROMOSOMES OF DROSOPHILA MELANOGASTER WITH RADIATION HISTORIES.
V M Salceda
Genetics 57(3):691-699
Nov 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Lethal factor, Radiation.

13203-69
PHYSIOLOGICAL GENETICS OF MELANOTIC TUMORS IN DROSOPHILA MELANOGASTER. IV. GENE-ENVIRONMENT INTERACTIONS OF TU-BW WITH DIFFERENT THIRD CHROMOSOME BACKGROUNDS.
J H Sang B Burnet
Genetics 56(4):743-754
Aug 1967 442.8 G28
Drosophila melanogaster, Insect genetics, Insect physiology, Neoplasms.

13204-69
INFLUENCE OF SELECTION ON THE VIABILITY OF IRRADIATED EXPERIMENTAL POPULATIONS OF DROSOPHILA MELANOGASTER.
K Sankaranarayanan
Genetics 57(3):687-690
Nov 1967 442.8 G28
Drosophila melanogaster, Insect genetics, Irradiation, Population, Viability.

13205-69
LINKAGE IN MORMONIELLA.
G B Saul S W Saul S Becker
Genetics 57(2):369-384 REF
Oct 1967 442.8 G28
Alleles, Insect genetics, Insect mutation, Nasonia vitripennis, Polymorphism.

13206-69
STABILIZING AND DISRUPTIVE SELECTION ON A MUTANT CHARACTER IN DROSOPHILA. I. THE PHENOTYPIC VARIANCE AND ITS COMPONENTS.
W Scharloo M S Hoogmoed A T Kuile
Genetics 56(4):709-726 REF
Aug 1967 442.8 G28
Drosophila, Insect genetics, Population.

13207-69
EFFECTS OF CROSSOVER MODIFYING AGENTS ON RECOMBINATION IN INTRA- AND INTERLOCUS REGIONS IN DROSOPHILA.
J Scholefield D T Suzuki
Genetics 55(1):107-111 REF
Jan 1967 442.8 G28
Chromosomes, Drosophila, Insect genetics.

13208-69
ULTRASTRUCTURE OF THE CHROMOCENTRE HETEROCHROMATIN IN DROSOPHILA MELANOGASTER.
M Sorsa
Suomalainen Tiedeakatemia Ann Ser A Iv Biol (146):3-20 REF
1969 442.9 H36
Chromosomes, Cytology, Drosophila melanogaster, Electron microscopy, Insect genetics.

13209-69
ULTRASTRUCTURE OF PUFFS IN THE PROXIMAL PART OF CHROMOSOME 3 R IN DROSOPHILA MELANOGASTER.
M Sorsa
Suomalainen Tiedeakatemia Ann Ser A Iv Biol (150):3-21 REF
1969 442.9 H36
Chromosomes, Cytology, Drosophila melanogaster, Electron microscopy, Insect genetics.

13210-69
ULTRASTRUCTURE OF THE POLYTENE CHROMOSOME IN DROSOPHILA MELANOGASTER WITH SPECIAL REFERENCE TO ELECTRON MICROSCOPIC MAPPING OF CHROMOSOME 3 R.
M Sorsa
Suomalainen Tiedeakatemia Ann Ser A Iv Biol (151):1-18 REF
1969 442.9 H36
Chromosomes, Cytology, Drosophila melanogaster, Electron microscopy, Insect genetics, Maps.

13211-69
SINGLE-LOCUS MODIFICATION OF POSITION-EFFECT VARIEGATION IN DROSOPHILA MELANOGASTER. I. WHITE VARIEGATION.
J B Spofford
Genetics 57(4):751-766 REF
Dec 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Insect rearing.

13212-69
THE EFFECT OF TEMPERATURE ON CROSSVEIN FORMATION IN CROSSVEINLESS-LIKE STRAINS OF DROSOPHILA MELANOGASTER.
S R Thompson
Genetics 56(1):13-22
May 1967 442.8 G28
Drosophila melanogaster, Genes, Insect genetics, Temperature.

13213-69
SELECTIVE MODES ASSOCIATED WITH INVERSION KARYOTYPES IN DROSOPHILA ANANASSAE. I. FREQUENCY-DEPENDENT SELECTION.
Y N Tobari K I Kojima
Genetics 57(1):179-188
Sep 1967 442.8 G28
Chromosomes, Drosophila ananassae, Insect genetics, Insect rearing.

13214-69
X-RAY INDUCTION OF 2;3 TRANSLOCATIONS IN MATURE AND IMMATURE OOCYTES OF DROSOPHILA MELANOGASTER.
H Traut
Genetics 56(2):265-272 REF

Jun 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, X-rays.

13215-69
INCIDENCE OF GENETIC MUTATIONS IN CULEX PIPIENS.
R C Vandehey
Mosquito News 29(2):183-189 REF
Jun 1969 421 M85
Abdomen, Antennae, Culex pipiens, Eyes, Insect genetics, Insect morphology, Larvae, Mutations, Thorax, Wings (insects).

13216-69
INDUCTION OF HYBRID STERILITY IN NON-HYBRID MALES OF DROSOPHILA PAULISTORUM.
D L Williamson L Ehrman
Genetics 55(1):131-140 REF
Jan 1967 442.8 G28
Drosophila paulistorum, Insect genetics, Sterility.

13217-69
VIABILITY OF HOMOKARYOTYPES IN THE TUMOROUS-HEAD STRAIN OF DROSOPHILA MELANOGASTER.
C M Woolf
Genetics 57(2):427-436 REF
Oct 1967 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Insect rearing, Viability.

13218-69
THE MODE OF SELECTION AT THE POLYMORPHIC ESTERASE 6 LOCUS IN CAGE POPULATIONS OF DROSOPHILA MELANOGASTER.
K Yarbrough K I Kojima
Genetics 57(3):677-686 REF
Nov 1967 442.8 G28
Drosophila melanogaster, Esterases, Insect genetics, Polymorphism, Population.

MEDICAL ENTOMOLOGY

13219-69
ABATE AND DURSBAN AGAINST AEDES AEGYPTI (L.) BREEDING IN CONCRETE WATER JARS IN BANGKOK, THAILAND.
B M Glancey M A Moussa J E Scanlon C S Lofgren
Mosquito News 28(2):205-206
Jun 1968 421 M85
Aedes aegypti, Chemical control (insects), Concrete, Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate, O,O -, Insecticides, Larvae, Organophosphorus compounds, Tetramethyl O,O'-thiodi-p-phenylene phosphorothioate, O, o, Water storage, Zoogeography.

13220-69
FIELD TESTS WITH BED NETS TREATED WITH REPELLENTS TO PREVENT MOSQUITO BITES.
H K Gouck M A Moussa
Mosquito News 29(2):263-264
Jun 1969 421 M85
Aedes, Culex, Culicidae, Insect control, Insect vectors, Sanitation control (insects).

13221-69
UNIQUE PROBLEMS IN INSECT AND PEST CONTROL OF NASA'S MISSISSIPPI TEST FACILITY.
F W Harden B J Ethridge
Mosquito News 28(2)141-143
Jun 1968 421 M85
Aedes sollicitans, Aedes taeniorhynchus, Carbamates, Chemical control (insects), Culicidae, Insecticidal aerosols, Isopropoxyphenyl methylcarbamate, o-, Naled, Polistes, Tabanidae.

13222-69
EVALUATION OF DURSBAN AS A LARVICIDE IN SEPTIC DITCHES.
J C McNeill W O Miller C M Wleczyk
Mosquito News 28(2):160-161
Jun 1968 421 M85
Chemical control (insects), Culex pipiens quinquefasciatus, Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate, O,O -, Insecticides, Larvicides, Organophosphorus compounds, Sewage disposal.

Several years of Dursban field analyses and laboratory experiments with Culex pipiens quinquefasciatus indicated that Dursban was an effective mosquito larvicide in open septic ditches and stagnant water when used in emulsifiable or granular formulations.

13223-69
OIL LARVICIDES APPLIED BY AIRCRAFT IN AN AREA CHARACTERIZED BY RESISTANCE TO ORGANOPHOSPHORUS LARVICIDES.
W D Murray
Mosquito News 28(2):233
Jun 1968 421 M85
Aedes nigromaculis, Aerial spraying, Insecticide resistant insects, Larvicides, Oil sprays, Organophosphorus compounds.

13224-69
MOSQUITO STUDIES IN NORTHERN WISCONSIN. I. LARVAL STUDIES.
R E Siverly G R DeFoliart
Mosquito News 28(2):149-154
Jun 1968 421 M85
Aedes, Culicidae, Culiseta morsitans, Insect ecology, Insect outbreaks, Larvae, Population, Statistical distributions, Zoogeography.

Data are presented concerning the sites of mosquito production and characteristics of larval populations including their relative abundance in a northern Wisconsin study area.

13225-69
DRIP APPLICATION OF THREE ORGANOPHOSPHORUS INSECTICIDES FOR MOSQUITO CONTROL.
R D Sjogren M S Mulla
Mosquito News 28(2):172-177 REF
Jun 1968 421 M85
Chemical control (insects), Culex tarsalis, Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate, O,O -, Fenthion, Formulations, Insecticide application, Insecticides, Organophosphorus compounds, Ponds, Streams, Tetramethyl O,O'-thiodi-p-phenylene phosphorothioate, O, o.

A review of drip application methods and the presentation of field study data indicate effective and economical mosquito larvae control in both flowing and quiescent waters can be achieved with Dursban, fenthion and Abate at rates of 0.2 ppm and 0.15 to 0.25 pounds per acre respectively.

13226-69
TREE PLANTINGS FOR MOSQUITO CONTROL.
G E Smith E Pickard T F Hall
Mosquito News 29(2):161-166
Jun 1969 421 M85
Anopheles quadrimaculatus, Culicidae, Cultural control (insects), Ecology, Larvae, Trees.

13227-69
HISTORY OF MOSQUITO OCCURRENCE IN MISSOURI.
L W Smith
Mosquito News 29(2):220-222
Jun 1969 421 M85
Anopheles, Culicidae, History, Insect vectors, Malaria.

13228-69
LOW VOLUME FOG AND MIST FOR GROUND USE.
G A Thompson
Mosquito News 29(2):166-169
Jun 1969 421 M85
Aerosols, Chemical control (insects), Culex, Culicidae, Insecticide application, Mist blowers, Spraying equipment.

CROP PROTECTION

13229-69
TREE PLANTING GUIDE FOR RURAL SOUTH AUSTRALIA.
C D Boomsma
(12):107P
1966 99.9 SO8
Australia, Insect pests, Plant breeding, Plant physiology, Plant protection, Rural development, Tree injuries, Tree planting.

13230-69
RECENT INTRODUCTIONS FOR BIOLOGICAL CONTROL IN HAWAII. XII.
C J Davis N L H Krauss
Hawaii Entomol Soc Proc 19(3):375-380, REF
Jun 1967 420 H312
Beneficial insects, Biological control (insects), Biological control (pests), Biological control (weeds), Insect pests, Parasitic insects, Plant pest control, Snails.

13231-69
CULTIVATION OF THE CRICKET BAT WILLOW.
Great Brit Forest Comm Bull (17):1-28 REF
1968 99.9 G795
Bacterial diseases (plants), Fungus diseases (plants), Livestock, Phytophagous insects, Plant diseases, Plant taxonomy, Planting, Rabbits, Salix alba, Soil properties, Spraying, Temperature, Tree injuries.

Partial contents p. 30-34

13232-69
PLANT PATHOLOGY AND THE PLANT PATHOLOGIST.
A E Muskett
Annu Rev Phytopathol 5:1-16
1967 464.8 AN72
Agricultural research, History, Plant diseases, Reviews.

13233-69
SPRAY SCHEDULE FOR DISEASES AND INSECTS OF CANE FRUITS.
Oreg State Univ Ext Ext Circ (609):7P
Feb 1969 275.29 OR32C
Chemical control (insects), Chemical control (plant diseases), Fruit, Fungicides, Fungus diseases (plants), Insect pests, Insecticides, Pesticide application, Spraying. Many insect pests and fungus diseases of fruits are discussed. Also several pesticides are listed.

13234-69
CONTROL OF LEAF AND STEM RUSTS OF WHEAT BY COMBINATIONS OF SOIL APPLICATION OF AN 1,4-OXATHIIN DERIVATIVE WITH FOLIAGE SPRAYS.
J B Rowell
Plant Dis Rep 52(11):856-858
Nov 1968 1.9 P69P
Chemical control (plant diseases), Chemicals, Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin-4,4-dioxide, 2 ,, Leaf rust, Planting, Spraying, Stem rust, Tables (data), Wheat.

13235-69
MANUFACTURE OF COATED SEED WITH DELAYED GERMINATION.
K Schreiber L J LaCroix
Can J Plant Sci 47(4):455-457
Jul 1967 450 C16
Crop yields, Fungicides, Herbicides, Seed germination.

DISEASES

13236-69
PREVENTION AND TREATMENT.
Anonymous
Kurukshetra 16(11):14-15
Aug 1968 281.28 K96

Aeridídae, Agricultural legislation, Agricultural policies, Insect pests, Plant pest control, Plant protection, Rice.

13237-69
ALTERNARIA BLIGHT OF GROUNDNUTS.
K S Aulakh
Plant Dis Rep 53(5):397-398
May 1969 1.9 P69P
Alternaria tenuis, Blight, Fungus diseases (plants), Peanuts.

13238-69
POSTHARVEST HEAT TREATMENT TO CONTROL STORAGE ROTS OF SPADONA PEARS.
R Ben-Aire S Guelfat-Reich
Plant Dis Rep 53(5):363-367 REF
May 1969 1.9 P69P
Alternaria tenuis, Botrytis einerea, Fungus diseases (plants), Pears, Penicillium expansum, Plant disease eontrol, Plant injuries, Rot, Storage diseases, Thermotherapy.

13239-69
EPIDEMIOLOGY OF LEAFHOPPER-TRANSMITTED VIRUSES.
C W Bennett
Annu Rev Phytopathol 5:87-108 REF
1967 464.8 AN72
Cieadellidae, Disease transmission, Insect migration, Inseet veetors, Virus diseases (plants).

13240-69
FUNGICIDES IN PERSPECTIVE.
K J Bent
Endeavour 28(105):129-134
Sep 1969 472 EN2
Fungicides, Fungus diseases (plants), Plant physiology, Systemic fungieides.

13241-69
ULTRASTRUCTURE OF FUNGI.
C E Bracker
Annu Rev Phytopathol 5:343-374 REF
1967 464.8 AN72
Cell nucleus, Fungi, Fungus diseases (plants), Hyphae, Morphology, Plant eytology, Plant physiology, Spore germination, Spores.

13242-69
EXPERIMENTS ON THE CONTROL OF WHIPTAIL IN CAULIFLOWER.
A Brown J Webber
Exp Hort (18):32-39
1968 80 EX7
Cauliflower, Hydrogen-ion coneentration, Liming, Molybdenum, Plant diseases, Plant nutritional defieieneies, Sodium, Soils.

13243-69
SOUTHERN CORN LEAF BLIGHT ON SWEET CORN EARS IN TRANSIT.
C L Burton
Plant Dis Rep 52(11):847-851
Nov 1968 1.9 P69P
Cochliobolus heterostrophus, Corn, Culture media, Freight transportation, Fungus diseases (plants), Injections, Leaf blight, Microorganisms, Temperature.

13244-69
THE JAPANESE BEETLE, POPILLIA JAPONICA NEWM. (COLEOPTERA: SCARABAEIDAE) IN SOUTHERN QUEBEC. (FR00)
J J Cartier
Entomol Soc Quebec Ann 14(1):10
Jan 1969 420 EN822
Chemieal eontrol (inseets), Chlordane, Inseet outbreaks, Insecticides, Popillia japonica, Zoogeography.

13245-69
PURIFICATION AND CONSERVATION OF INFECTIVE SUGAR BEET MOSAIC VIRUS.
J Chod J Polak
Biol Plant 11(4):324-326
1969 450 B52
Lyophilization, Mosaie (sugar beets), Sugar beets, Viruses.

13246-69
ETIOLOGY OF SOME BACTERIAL DISEASES OF POPLAR IN POLAND. I. BACTERIOSIS CAUSED BY PSEUDOMONAS MIGULA AND ERWINIA WINSLOW.
K Danilewicz
Acta Microbiol Polon 16(1):73-81 REF
1967 448.3 AC82
Baeterial diseases (plants), Erwinia, Plant diseases, Populus, Pseudomonas.

13247-69
A CONTRIBUTION TO THE STUDY OF THE PARASITE CERCOSPORELLA HERPOTRICHOIDES ON THE WHEAT. (SE)
M Dimitrijevie
Zastita Bilja 18(93-95):241-246 REF
1967 464.8 Z1
Cercosporella herpotrichoides, Crop varieties, Fungus diseases (plants), Plant disease resistance, Plant disease transmission, Symptomatology, Wheat. English summary.

13248-69
CONTROL OF DISEASES OF FRUITS AND VEGETABLES BY POSTHARVEST TREATMENT.
J W Eckert N F Sommer
Annu Rev Phytopathol 5:391-432 REF
1967 464.8 AN72
Biphenyl, Borax, Chemical eontrol (plant diseases), Fruit, Fungieides, Halogen compounds, Irradiation, Sodium earbonate, Sulfur compounds, Temperature, Vegetables.

13249-69
ANATOMY OF PLANT VIRUS INFECTIONS.
K Esau
Annu Rev Phytopathol 5:45-76 REF
1967 464.8 AN72
Disease transmission, Electron microscopy, Plant cytology, Plant physiology, Plant translocation, Virology, Virus diseases (plants).

13250-69
A KINETIC ISOTOPE EFFECT IN THE PHOTOREACTIVATION OF U. V.-INACTIVATED TOBACCO MOSAIC VIRUS RNA.
N A Evans A D McLaren
Photochem Photobiol 9(3):243-246 REF
Mar 1969 382 P56
Deuterium, Isotopes, Kidney beans, Kinetics, Mosaic, Photoehemistry, Ribonucleie aeid, Tobaeeo mosaic virus, Ultraviolet rays.

13251-69
LEPTOSPHAERIA LINDQUISTII N. SP., AS CAUSAL OF (BLACK STEM) IN SUNFLOWERS. (SP)
M J Frezzi
Rev Invest Agr Ser 5, Patol Veg 5(7):73-80
1968 464.8 R322
Blaek stem, Fungus diseases (plants), Leptosphaeria lindquisti, Phoma lingam, Sunflowers. English abstract.

13252-69
FACTORS AFFECTING THE SYSTEMIC ANTIFUNGAL ACTIVITY OF SOME CHEMICALLY RELATED COMPOUNDS.
J L Garraway S E Cook
J Sci Food Agr 20(7):409-412 REF
Jul 1969 382 SO12
Fungicides, Glycosides, Phenols, Sulfanilic aeid, Uromyees.

13253-69
TOLERANCE OF FUNGI TO ORGANIC FUNGICIDES.
S G Georgopoulos
Annu Rev Phytopathol 5:109-130 REF
1967 464.8 AN72
Fungi, Fungicide resistant fungi, Fungieides, Fungus diseases (plants), Organie compounds, Tolerances.

13254-69
PHYSICAL ASPECTS OF SOIL IN RELATION TO THE ACTION OF SOIL FUNGICIDES.
C A I Goring
Annu Rev Phytopathol 5:285-318 REF
1967 464.8 AN72
Bibliography, Decomposition, Pesticide residues, Soil fungieides, Soil properties.

13255-69
NOTES ON WISCONSIN PARASITIC FUNGI.XXXIII.
H C Greene
Wis Acad Sci Arts Lett Trans 56:263-280
1968 500 W75
Fungi, Fungus diseases (plants), Parasitie plants, Plant morphology, Surveys.

13256-69
PARTICLE SIZE OF THE SEVERE STRAIN OF BEAN YELLOW MOSAIC VIRUS. ELECTRON MICROSCOPE INVESTIGATIONS.
T B Grelh W Blaszczak
Acta Microbiol Polon 16(1):69-72
1967 448.3 AC82
Beans, Electron mieroscopy, Mosaie (bean yellow), Virus diseases (plants).

13257-69
OPTICAL INVESTIGATIONS ON DOUBLE STRANDED RIBONUCLEIC ACID FROM TURNIP YELLOW MOSAIC VIRUS.
W Guschlbauer Y Courtois C Bove J M Bove
Z Vererbungslehre 103(2):150-158 REF
30 Dee 1968 442.8 Z34
Biochemistry, Cytology, Ribonucleie aeid, Spectrophotometry, Turnips, Virology, Virus diseases (plants), Yellow mosaic.

13258-69
CHEMICAL CONTROL OF SUPERFICIAL SCALD ON ANJOU PEARS.
E Hansen W M Mellenthin
Amer Soc Horticult Sci Proc 91:860-862
1967 81 SO12
Chemieal eontrol (plant diseases), Dihydro-6-ethoxy-2,2,4-trimethylquinoline, 1,2-, Diphenylamine, Dipping, Dosage, Pears, Plant diseases, Plant physiology, Seald, Spraying.

13259-69
THE GENETICS AND EXPRESSION OF RESISTANCE IN PLANTS TO RUSTS OF THE GENUS PUCCINIA.
A L Hooker
Annu Rev Phytopathol 5:163-182 REF
1967 464.8 AN72
Environment, Fungus diseases (plants), Plant disease resistance, Plant genetics, Plant physiology, Puccinia.

13260-69
SPECIATION IN VERTICILLIUM.
I Isaae
Annu Rev Phytopathol 5:201-222 REF
1967 464.8 AN72
Fungi, Fungus diseases (plants), Plant physiology, Plant taxonomy, Verticillium.

13261-69
THE EFFECTS OF SOIL TREATMENTS ON ANEMONE DOWNY MILDEW INFECTION.
A E Jeff
Exp Hort (18):101-109
1968 80 EX7
Anemone, Chemical eontrol (plant diseases), Downy mildew, Fungieides, Fungus diseases (plants), Ranuneulaeeae, Sodium N-methyldithiocarbamate, Soil-borne plant diseases, Soils.

13262-69
IDENTIFICATION AND CHARACTERIZATION OF TUNGRO, A VIRUS DISEASE OF RICE IN INDIA.
V T John
Plant Dis Rep 52(11):871-875
Nov 1968 1.9 P69P

Insect cages, Insect vectors, Nephotettix apicalis, Nephotettix impicticeps, Rice, Tungro, Virus diseases (plants).

13263-69
THE WORLD SITUATION OF THE CEREAL RUSTS.
T Johnson G J Green D J Samborski
Annu Rev Phytopathol 5:183-200 REF
1967 464.8 AN72
Chemical control (plant diseases), Fungus diseases (plants), Grain, Plant disease transmission, Plant genetics, Plant taxonomy, Uredinales.

13264-69
A CONTRIBUTION TO THE KNOWLEDGE OF SPEED OF EXPANSION OF PLUM POX VIRUS IN NATURAL CONDITIONS. (SE)
B Jovicevic B Durdevic
Zastita Bilja 18(93-95):257-260
1967 464.8 Z1
Epidemiology, Fruit, Plant disease transmission, Plums, Poxviruses, Symptomatology, Virology, Virus diseases (plants). English summary.

13265-69
A STRAIN OF HOLMES' RIBGRASS VIRUS OCCURRING IN YUGOSLAVIA.
N Juretic M Wrischer Z Polak
Biol Plant 11(4):284-290 REF
1969 450 B52
Diagnosis, Plant disease transmission, Serodiagnosis, Taxonomy, Virus diseases (plants).

13266-69
PHYTOTOXICITY OF DITHIOCARBAMATE FUNGICIDES ON WORCESTER PEARMAIN.
A H M Kirby M Bennett R O Sharples
Horticultural Abs 38(3):695
Sep 1968 241 IM74
Apples, Dithiocarbamates, Fungicides, Fungus diseases (plants), Plant protection, Toxicology.

13267-69
THE HYPERSENSITIVE REACTION TO INFECTION BY BACTERIAL PLANT PATHOGENS.
Z Klement R N Goodman
Annu Rev Phytopathol 5:17-44 REF
1967 464.8 AN72
Antibiotics, Antibodies, Bacterial diseases (plants), Environment, Hypersensitivity, Immunity, Plant nutrition, Plant physiology, Reviews, Toxicology.

13268-69
CHEMOTHERAPY OF HEAD SMUT (USTILAGO BULLATA) IN BROMUS WILLDENOWII.
G C M Latch
Plant Dis Rep 53(4):284-286
Apr 1969 1.9 P69P
Bromus, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin-4,4-dioxide, 2 ,, Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Head smut, Ustilago bullata.

13269-69
A PHYLLOSTICTA LEAF SPOT DISEASE OF KAGZI LIME.
V C Lele S P Raychaudhuri A Ram
Indian Phytopathol 21(2):237
Jun 1968 464.8 IN2
Fungus diseases (plants), Leaf spot, Limes, Phyllosticta.

13270-69
NECROSIS AND DIE-BACK IN CONIFERS CAUSED BY DIPLODIA PINEA. (IT
G Magnani
Ente Naz Cell Carta Cent Sperim Agr Forest Pubbl 9(3):209-220 REF
1967 16 C332
Coniferae, Dieback, Fungus diseases (plants), Macrophoma pinea, Necrosis, Pinus pinea, Pinus radiata. English summary.

13271-69
SECOND INVESTIGATION ON THE DISTRIBUTION OF MARSSONINA BRUNNEA (ELL. ET EV.) P. MAGN. IN CENTRAL AND SOUTHERN ITALY. (IT)
G Magnani
Ente Naz Cell Carta Cent Sperim Agr Forest Pubbl 9(3):173-180 MAP
1967 16 C332
Drepanopeziza punctiformis, Fungus diseases (plants), Plant geography, Populus. English summary.

13272-69
THE RANGE OF WESTERN GALL RUST IN WISCONSIN.
W T McGrath R F Patton
Plant Dis Rep 53(5):357-359 MAP REF
May 1969 1.9 P69P
Epidemiology, Fungus diseases (plants), Peridermium harknessii, Western gall rust.

13273-69
DIDYMELLA STEM AND FRUIT ROT OF TOMATO.
Great Brit Min Agr Fish Food Adv Leafl (560):1-5
Mar 1968 10 G79LA
Captan, Chemical control (plant diseases), Cultural control (plant diseases), Didymella lycopersici, Fungus diseases (plants), Maneb, Plant disease transmission, Rot, Soil sterilization, Tomatoes.

The causal agent of stem and fruit rot of tomatoes (Didymella lycopersici), symptoms of the diseases, and recommended control measures are presented.

13274-69
SOME PROPERTIES OF PEA ENATION MOSAIC VIRUS ISOLATED FROM FIELD PEA AND BROAD BEAN PLANTS IN BOHEMIA.
M Musil O Leskova
Biol Plant 11(4):319-323
1969 450 B52
Beans, Diagnosis, Peas, Plant disease transmission, Taxonomy, Virus diseases (plants).

13275-69
EXOCORTIS IN CITRUS IN INDIA.
T K Nariani S P Raychaudhuri B C Sharma
Plant Dis Rep 52(11):834-
Nov 1968 1.9 P69P
Citrus, Exocortis, Surveys, Trees, Tristeza, Virus diseases (plants).

13276-69
OCCURRENCE IN COCHLIOBOLUS HETEROSTROPHUS OF CAPACITIES TO BLIGHT GRAMINEOUS HOSTS.
R R Nelson D M Kline
Plant Dis Rep 52(11):879-882
Nov 1968 1.9 P69P
Cochliobolus heterostrophus, Culture media, Geography, Grasses, Plant diseases, Tables (data).

13277-69
EYE-SPOT OF NAPIER GRASS CAUSED BY HELMINTHOSPORIUM SACCHARI IN JAPAN. (JA)
N Nishihara
Chiba City Nat Inst Anim Indus Bull (15):33-41 REF
Oct 1967 49.9 C436K
Eyespot, Fungus cultures, Fungus diseases (plants), Grasses, Helminthosporium sacchari. English summary.

13278-69
PHYTOPATHOLOGY IN A HUNGRY WORLD.
W C Paddock
Annu Rev Phytopathol 5:375-390 REF
1967 464.8 AN72
Crop yields, Foreign trade, History, Plant diseases.

13279-69
THE PROBLEMS OF PLANT DISEASE CONTROL.
B P Pal
Indian Farming 18(5):4-5
Aug 1968 22 IN283
Alternaria, Chemical control (plant diseases), Helminthosporium, Piricularia, Plant disease control, Plant disease resistance, Plant quarantine.

Plant disease control through quarantine, chemicals, and the education of agricultural workers in India is discussed.

13280-69
FURTHER INVESTIGATIONS ON AN ABNORMALITY OF POTATO TUBERS. (IT
C M Pettinari
Giornate Fitopatol 623-626
26 Mar 1967 SB599.G5
Agriotes litigiosus, Insect pests, Plant diseases, Plant injuries, Potatoes, Symptomatology, Tubers.

13281-69
FUNGICIDES FOR THE CONTROL OF LEAF SPOT (PSEUDOPEZIZA RIBIS) OF BLACK CURRANTS.
F O Riordan
Irish J Agr Res 7(3):317-323 REF
Dec 1968 10.5 IR45
Chemical control (plant diseases), Chlorinated hydrocarbons, Currants, Dinitrile-1,4-dithioanthraquinone, 2,3-, Dodine, Folpet, Fungicides, Fungus diseases (plants), Leaf spot, Maneb (zinc ion), Pseudopeziza ribis, Tetrachloroethyl)thio)-4-cyclohexene-1,2-dicarboximide, cis-, Tetrachloroisophthalonitrile, Thiocarbamates, Zineb. There is a list of the effects of fungicides.

13282-69
AROMATIC COMPOUNDS IN THE HOST-PARASITE INTERACTION.
R Rohringer D J Samborski
Annu Rev Phytopathol 5:77-86 REF
1967 464.8 AN72
Aromatic hydrocarbons, Metabolites, Parasitism, Phytoalexin, Plant biochemistry.

13283-69
STUDIES ON THE BACTERIAL DISEASES OF SUDAN CROPS. VII. NEW RECORDS.
K Sabet F Ishag O Khall
Ann Appl Biol 63(3):357-369 REF
Jun 1969 442.8 AN72
Bacterial diseases (plants), Surveys, Weeds, Xanthomonas.

13284-69
STUDIES ON THE NEEDLE RUST OF THE FIVE-NEEDLED PINES. (JA)
H Saho
Tokyo Univ Forest Bull (64):59-148 REF
Mar 1968 99.9 T57
Coleosporium, Pine needles, Pinus, Rust. English summary.

13285-69
SITES OF VIRUS SYNTHESIS WITHIN CELLS.
D E Schlegel S H Smith
Annu Rev Phytopathol 5:223-246 REF
1967 464.8 AN72
Autoradiography, Biochemistry, Cell nucleus, Cytoplasm, Plant cytology, Spectrophotometry, Synthesis, Virology, Virus diseases (plants).

13286-69
A COMPARISON OF THE BEHAVIOR OF TWO PEA PATHOGENS IN CUT-AWAY PEAT AND LOAM.
J J Sheridan C H Dickinson
Irish J Agr Res 7(3):335-342 REF
Dec 1968 10.5 IR45
Ascochyta pisi, Fungus diseases (plants), Loam, Microbiology, Mycosphaerella pinodes, Peas, Peat, Soil fungi, Temperature.

13287-69
EFFECT OF TEMPERATURE ON THE ABILITY OF COLLETOTRICHUM GRAMINICOLA TO FORM APPRESSORIA AND PENETRATE BARLEY LEAVES.
W P Skoropad
Can J Plant Sci 47(4):431-434 REF

Jul 1967 450 C16
Appressoria, Barley, Colletotrichum graminicolum, Fungus diseases (plants), Temperature.

Abstract: Appressoria can penetrate barley leaves only at a range of 25 to 30 C. Appressoria formed at 15 to 20 C remain dormant until exposed to the higher range of 25 to 30 C.

13288-69
'PELIPITA', AN ABB BLUGGOE-TYPE PLANTAIN RESISTANT TO BACTERIAL AND FUSARIAL WILTS.
R H Stover D L Richardson
Plant Dis Rep 52(11):901-903
Nov 1968 1.9 P69P
Bacteria, Bacterial wilt, Food, Fusarium oxysporum, Livestock, Plantago, Pseudomonas solanacearum, Wilt.

13289-69
THE QUANTITATIVE EFFECT OF LIGHT AND MOISTURE ON CARROT SEED INFECTIONS IN BLOTTER MEDIUM.
J de Tempe
Int Seed Testing Ass Proc 33(3):547-553
1968 61.9 IN84P
Alternaria dauci, Alternaria radicina, Carrots, Culture media, Fungus diseases (plants), Humidity, Light, Seeds.

13290-69
THE DETECTION OF HELMINTHOSPORIUM AND FUSARIUM SPP. IN RYEGRASS AND MEADOW FESCUE SEED SAMPLES.
J de Tempe
Int Seed Testing Ass Proc 33(3):541-545
1968 61.9 IN84P
Festuca elatior, Fusarium, Helminthosporium, Lolium, Seed analysis, Seeds.

13291-69
THE PREVALENCE OF CRAZY TOP OF CORN IN 1968.
A J Ullstrup M H Sun
Plant Dis Rep 53(4):246-250
Apr 1969 1.9 P69P
Corn, Crazy top, Epidemiology, Fungus diseases (plants), Sclerophthora macrospora.

13292-69
PRODUCTION AND STABILITY OF HETEROKARYONS OF THE PHYTOPATHOGENIC FUNGUS FUSARIUM VASINFECTUM.
R Uma Bai K Radhashanmugasundaram E R B Shanmugasundaram
Cur Sci 37(22):647-648
20 Nov 1968 475 SCI23
Cytology, Fungus diseases (plants), Fusarium vasinfectum, Plant diseases.

13293-69
INVESTIGATIONS OF THE EFFICACY OF SOME FUNGICIDES IN THE CONTROL OF MYCOSPHAERELLA SENTINA-CAUSER OF THE LEAF SPOT OF PEARS. (SE)
D Vojvodic V Radovic
Zastita Bilja 18(93-95):269-274
1967 464.8 Z1
Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Leaf spot, Mycosphaerella sentina, Pears, Spraying. English summary.

13294-69
HEREDITARY RESISTANCE TO DISEASE IN TOMATO.
J M Walter
Annu Rev Phytopathol 5:131-162
1967 464.8 AN72
Fungus diseases (plants), Plant disease resistance, Plant injuries, Reviews, Tomatoes.

13295-69
FUNGI ISOLATED FROM TOBACCO LEAVES AND BROWN-SPOT LESIONS BEFORE AND AFTER FLUE-CURING.
R E Welty G B Lucas J T Fletcher H Yang
Appl Microbiol 16(9):1309-1313
Sep 1968 448.3 AP5
Brown spot, Flue-cured tobacco, Fungus diseases (plants), Tobacco.

13296-69
REACTIONS OF POPLARS TO INFECTION BY SEPTORIA MUSIVA AND DIPLODIA TUMEFACIENS AND TO INJURY BY FROST IN MANITOBA AND SASKATCHEWAN.
H Zalasky O K Fenn C H Lindquist
Plant Dis Rep 52(11):829-833 REF
Nov 1968 1.9 P69P
Fungus diseases (plants), Macrophoma tumefaciens, Plant injuries, Populus deltoides, Septoria musiva, Weather.

ARTHROPODS

13297-69
GRAIN APHIDS IN NEW BRUNSWICK. IV. EFFECTS OF MALATHION AND 2,4-D AMINE ON APHID POPULATIONS AND ON YIELDS OF OATS AND BARLEY.
J B Adams M E Drew
Can J Zool 47(3):423-426
May 1969 470 C16D
Barley, Crop yields, D, 2,4-, Grain, Herbicides, Insect pests, Insecticides, Longevity, Macrosiphum avenae, Malathion, Oats, Organophosphorus compounds, Phenoxy acid compounds, Reproduction, Rhopalosiphum padi.

13298-69
POLYDRUSUS CONFLUENS STEPH. (COL., CURCULIONIDAE) RECORDED IN ERROR FROM OAK.
A A Allen
Entomol Mon Mag (SER.4)98(267-269):108
Mar 1962 421 EN86
Curculionidae, Cytisus, Food plants, Insect rearing, Polydrusus confluens, Quercus, Reports.

13299-69
NEW RESULTS IN THE CONTROL OF THE COFFEE BORER--HYPOTHENEMUS HANPEI (FERR., 1867). (POR)
P R Almeida R D Cavalcante A A Holanda
Biologico 33(1):14-17 REF
Jan 1967 442.8 B529
Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, Dimethoate, Endosulfan, Hypothenemus hampei, Insect control.

13300-69
THE RELATIVE SUSCEPTIBILITY OF THE LARVAE OF SPODOPTERA MAURITIA ACRONYCTOIDES (GUENEE) (LEPIDOPTERA: NOCTUIDAE) TO SEVERAL CONTACT INSECTICIDES.
K Ando M Sherman
Hawaii Entomol Soc Proc 19(3):349-360, REF
Jun 1967 420 H312
Biological assay, Carbamates, Carbaryl, Chlordane, Chlorinated hydrocarbons, DDT, Dosage, Fenthion, Insect behavior, Insect diseases, Insect rearing, Insect taxonomy, Insecticides, Larvae, Malathion, Mortality, Nosema, Organophosphorus compounds, Plant pest control, Regression analysis, Spodoptera mauritia acronyctoides.

13301-69
EFFECTS OF THREE SPECIES OF APHIDS ON BARLEY, WHEAT OR OATS AT VARIOUS STAGES OF PLANT GROWTH.
J U Apablaza A G Robinson
Can J Plant Sci 47(4):367-373 REF
Jul 1967 450 C16
Barley, Macrosiphum avenae, Oats, Plant pest resistance, Rhopalosiphum maidis, Schizaphis graminum, Wheat.

Abstract: The corn leaf aphid did not establish large populations on wheat or oats but most seedlings of barley infested prior to heading were killed. The greenbug and the English grain aphid severely injured or killed seedings of barley, wheat, and oats, and caused reductions in kernel weight of harvested grain, even when placed on plants in advanced stages of growth.

13302-69
THE USE OF CIDIAL TO CONTROL CERTAIN POPLAR BORERS. (IT)
B Cavalcaselle E De Bellis
Ente Naz Cell Carta Cent Sperim Agr Forest Pubbl 9(3):155-162 REF
1967 16 C332
Cerambycidae, Chemical control (insects), Cryptorhynchus lapathi, Diazinon, Ethyl mercaptophenylacetate, O,O-dimethyl phosphorodithioa t, Fenthion, Insect pests, Organophosphorus compounds, Parathion, Phosphamidon, Populus, Saperda carcharias. English summary.

13303-69
ANOTHER SPECIES OF LITHOCOLLETIS IS SPREAD OVER ITALIAN FRUIT ORCHARDS. (IT)
M Ciampolini
Giornate Fitopatol 627-630
26 Mar 1967 SB599.G5
Apantcles, Biological control (insects), Fruit culture, Gracillariidae, Insect identification, Insect pests, Lithocolletis blancardella, Lithocolletis pomonella, Parasitism.

13304-69
GRAVE DAMAGE TO GREENHOUSE TOMATOES BY LIRIOMYZA-SOLANI MACQUART. (IT)
M Ciampolini
Giornate Fitopatol 621-622
26 Mar 1967 SB599.G5
Chemical control (insects), Dimethoate, Greenhouse culture, Insect pests, Liromyza solani, Parathion, Tomatoes.

13305-69
SIDEDRESS APPLICATIONS OF UNION CARBIDE UC-21149 FOR CONTROL OF OVERWINTERED BOLL WEEVILS.
J R Coppedge D A Lindquist R L Ridgway C B Cowan L A Bariola
J Econ Entomol 62(3):558-565 REF
16 Jun 1969 421 J822
Aldicarb, Anthonomus grandis, Chemical control (insects), Cotton, Insect behavior, Insect pests, Pesticide application, Soil sanitation.

13306-69
DISTRIBUTION AND IMPORTANCE OF HETEROLACCUS GRANDIS AS A PARASITE OF THE BOLL WEEVIL.
W H Cross H C Mitchell
Entomol Soc Amer Ann 62(1):235-236 MAP
15 Jan 1969 420 EN82
Anthonomus grandis, Biological control (insects), Cotton, Curculionidae, Hampea, Heterolaccus grandis, Heterolaccus hunteri, Insect ecology, Insect pests, Parasitic insects, Pteromalidae, Urosigalphus schwarzi, Zoogeography.

13307-69
A CONTRIBUTION TO THE STUDY OF CICADA (CICADETTA MONTANA SCOP.) AS PEST OF RASPBERRIES (RUBUS IDAEUS L.) IN THE REGIONS OF VALJEVO AND CACAK. (SE)
K Dobrivojevic
Zastita Bilja 18(93-95):261-267
1967 464.8 Z1
Apples, Cicadetta montana, Cicadidae, Insect biology, Insect control, Insect pests, Plant injuries, Raspberries. English summary.

13308-69
ANCYLIS COMPTANA, A NEW TORTIX MOTH ON STRAWBERRIES.
P I Gambaro
Horticultural Abs 38(3):693
Sep 1968 241 IM74
Ancylis comptana fragariae, Insect pests, Plant protection, Strawberries.

13309-69
THE ROLE OF PARASITES IN DECREASE OF NUMBERS OF PISSODES PICEAE (CURCULIONIDAE). (RUS0)
T M Gurjanova

Zool Zhur 48(4):538-549
Apr 1969 410 R92
Cureulionidae, Forest inseets, Hymenoptera, Insect ecology, Larvae, Natural control (inseets), Pupae. English abstract.

13310-69
PERFORMANCE OF APHIS FABAE AND BREVICORYNE BRASSICAE ON PLANTS TREATED WITH GROWTH REGULATORS.
C H B Honeyborne
J Sci Food Agr 20(7):388-390 REF
Jul 1969 382 SO12
Aphis fabae, Beans, Brevieorync brassicae, Chloroethyl)trimethylammonium chloride, (2-, Fertility, Plant growth regulator, Plant pest resistanee.

13311-69
SAN JOSE SCALE (QUADRASPIDIOTUS PERNICIOSUS).
E L Jones
Horticultural Abs 38(3):693
Sep 1964 241 IM74
Apples, Aspidiotus perniciosus, Inseet pests, Peaches.

13312-69
THE FIGHT AGAINST SYNANTHROPIC FLIES. (RUS)
V Lavchiev
Priroda (Sofia) (3,MAY-JUN):58-61
Jun 1969 410 P934
Calliphoridae, Diptera, Inseet control.

13313-69
INVESTIGATIONS ON THE CONTROL OF PASTURE COCKCHAFERS, APHODIUS PSEUDOTASMANIAE, GIVEN IN TASMANIA.
E J Martyn
Tasmanian J Agr 39(1):21-26
Feb 1968 23 T182T
Aphodius pseudotasmaniae, Azinphosmethyl, Carbamates, Carbaryl, Chemical control (inseets), Chlorinated hydrocarbons, Dimethyl S-phthalimidomethyl phosphorodithioate, O,O-, Insect pests, Insectieides, Organophosphorus compounds, Pastures, Searabaeidae.

Because of uncertainty as to the wisdom of future use of chlorinated hydrocarbons, other insecticides were tested for use in controlling Aphodius pseudotasmaniae. For several reasons, carbaryl was judged most useful of the inseetieides tested.

13314-69
THE EFFECTS OF SYNERGIZED PYRETHRINS AND LINDANE ON PRE-EMERGENCE MORTALITY OF ACANTHOSCELIDES OBTECTUS (SAY.) (COLEOPTERA: BRUCHIDAE).
J A McFarlane
J Stored Prod Res 5(2):177-180
Aug 1969 421 J829
Acanthoseelides obteetus, Chemieal control (inseets), Chlorinated hydroearbons, Inseet eontrol, Lindane, Mortality, Preemergence, Pyrethrum, Synergists.

13315-69
FIELD CONTROL OF THE NANTUCKET PINE TIP MOTH BY THE NEMATODE DD-136.
R F Nash R C Fox
J Econ Entomol 62(3):660-663 REF
16 Jun 1969 421 J822
Biological eontrol (inseets), Chemieals, Nematodes, Neoaplectana, Pinus taeda, Rhyaeionia frustrana, Spraying. Chemical adjuvants to prevent dessication of Neoaplectana in sprays were tested.

13316-69
DISPERSAL OF BRYOBIA SPP. AND TYPHLODROMUS MCGREGORI CHANT WITHIN APPLE TREES IN CENTRAL UTAH.
E E Nelson C D Jorgensen
Utah Acad Sci Arts Lett Proc 45(1):168-181 REF
1968 500 UT1
Bryobia, Mites, Orehards, Surveys, Typhlodromus.

13317-69
BIOLOGICAL METHODS ARE EFFECTIVE AND HYGIENIC.
M Nikoi Kaya
Kurukshetra 16(11):13
Aug 1968 281.28 K96
Biologieal eontrol (inseets), Hygiene, Inseet pests, Plant pest eontrol, Plant proteetion.

13318-69
THE EFFECTS OF OIL TREATMENTS ON EGG HATCHING IN THE BUFFALO TREE HOPPER, STICTOCEPHALA BUBALUS (F.) (HOMOPTERA: MEMBRACIDAE), IN THE APPLE ORCHARDS OF SOUTHWEST QUEBEC. (FR00)
R O Paradis
Entomol Soc Quebec Ann 14(1):25-28
Jan 1969 420 EN822
Apples, Inseet eggs, Membracidae, Polynema striatieorne, Stietocephala bubalus. English abstraet.

13319-69
PRELIMINARY OBSERVATIONS ON THE ALFALFA WEEVIL HYPERA POSTICA (GYLL.) (COLEOPTERA: CURCULIONIDAE), OF QUEBEC. (FR00)
J P Perron
Entomol Soc Quebec Ann 14(1):18- 21 MAP
Jan 1969 420 EN822
Alfalfa, Crop losses, Hypera postiea, Insect outbreaks. English abstract.

13320-69
THE GROUND BEETLE ANISODACTYLUS SIGNATUS (COLEOPTERA, CARABIDAE)--MAIZE PEST IN THE ROSTOV DISTRICT. (RUS)
A V Ponomarenko
Zool Zhur 48(1):143-145
Jan 1969 410 R92
Anisodaetylus signatus, Carabidae, Corn, Inseet pests, Predaceous insects, Rhizosphere, Roots, Zoogeography.

13321-69
CURRENT PROBLEMS: ERIOPHYIDAE OF CULTIVATED PLANTS. (IT)
P Rota M Ciampolini
Giornate Fitopatol 401-406
26 Mar 1967 SB599.G5
Chemieal eontrol (inseets), Economie plants, Eriophyidae. Many species of Eriophyidae and many insectieides are discussed.

13322-69
CONTROL OF APHIDS IN SEED POTATO PRODUCTION.
G D Shaw T Passlow
Queensland J Agr Anim Sci 24(3-4,SEP-DEC):309-314
Dec 1967 23 Q37
Aphididae, Chemieal control (inseets), Chlorinated hydrocarbons, Endosulfan, Inseet eontrol, Maerosiphum euphorbiae, Methyl demeton, Myzus persieae, Seed potatoes, Systemie insecticides.

13323-69
REPRODUCTION OF STORED-GRAIN INSECTS ON VARIETIES OF WHEAT, OATS, AND BARLEY.
R N Sinha
Entomol Soc Amer Ann 62(5):1011-1015 REF
15 Sep 1969 420 EN82
Barley, Cryptolestes ferrugineus, Oats, Plant pest resistance, Reproduetion, Rhyzopertha dominiea, Sitophilus granarius, Tribolium castaneum, Tribolium confusum, Wheat.

13324-69
SOME OBSERVATIONS ON ANTHIX PUTA (GROTE AND ROBINSON) (LEPIDOPTERAI NOCTUIDAE) FOUND ON ASPENS IN THE PROVINCE OF QUEBEC. (FR00)
W A Smirnoff
Entomol Soc Quebec Ann 14(1):6-9
Jan 1969 420 EN822
Inseet diseases, Inseet outbreaks, Noetuidae, Nosema, Phytophagous insects, Populus tremuloides, Zoogeography. English abstraet.

13325-69
INTEGRATED CONTROL OF INSECTS.
R F Smith
Agr Sci Rev 7(1):1-5
1969 A31.3 AG893
Benefieial inseets, Inseet eeology, Inseet pests, Integrated control (inseets), Pesticides, Plant pest control.

13326-69
WOODPECKER PREDATION ON INSECT BORERS IN LIVING HARDWOODS.
J D Solomon
Entomol Soc Amer Ann 62(5):1214
15 Sep 1969 420 EN82
Birds, Cerambyeidae, Hardwoods, Natural eontrol (insects), Wood borers.

13327-69
DISTRIBUTION OF SURATTHA INDENTALLA KEARFOTT ON BUFFALOGRASS.
K A Sorensen H E Thompson
J Econ Entomol 62(3):750-752, MAP
16 Jun 1969 421 J822
Buehloe dactyloides, Golf courses, Grasses, Insect behavior, Insect pests, Lawns, Plant injuries, Turf, Zoogeography.

13328-69
SCALES ON LEMON TREES.
Tasmanian J Agr 39(4):333
Nov 1968 23 T182T
Chemieal eontrol (inseets), Coccidae, Coeeus hesperidum, Inseet pests, Lemons, Oil sprays, Saissetia oleae.

Oil sprays effeetively eontrolled blaek seale (Saissetia oleae) and soft brown seale (Coeeus hesperidum) on lemon trees.

13329-69
PLANT RESISTANCE TO APHIDS INDUCED BY CHEMICALS.
H F Van Emden
J Sci Food Agr 20(7):385-387 REF
Jul 1969 382 SO12
Amino acids, Aphididae, Insect pests, Integrated control (inseets), Nitrogen, Plant nutrition, Plant physiology, Plant resistanee.

13330-69
DISPLACEMENT IN THE RATIO BETWEEN CLYSIA AMBIGUELLA AND POLYCHROSIS BOTRANA VINE MOTH POPULATIONS IN 1965-1966.
E Voigt
Horticultural Abs 38(3):693
Sep 1968 241 IM74
Clysiana ambiguella, Grapes, Insect pests, Inseet population, Polychrosis botrana.

13331-69
USE OF GROWTH RETARDANTS ON CHRYSANTHEMUMS: EFFECT ON PEST POPULATIONS.
C R Worthing
J Sci Food Agr 20(7):394-397 REF
Jul 1969 382 SO12
Chrysanthemum, Mortality, Myzus persieae, Population, Succinic acid, 2,2-dimethylhydrazide, Tetranychus urticae.

13332-69
THE BIOLOGY AND CHEMICAL CONTROL OF THE MAIZE BORER, OSTRINIA SALENTIALIS, SNELLEN, IN WEST MALAYSIA.
A Yunus H T Hua
Malaysian Agr J 47(1):109-140 REF
Jan 1969 22.5 F312
Benzene hexachloride, Chemieal eontrol (inseets), Chlorinated hydroearbons, Corn, Food habits, Hydroxy-N,N-dimethyl-cis-erotonamide dimethyl phosphate, 3 -, Insect biology, Inseet eontrol, Organophosphorus eompounds, Ostrinia.

NEMATODES

13333-69
TAXONOMIC PROBLEMS CONCERNING THE PHYTOPARASITIC NEMATODES.
M W Allen
Annu Rev Phytopathol 5:247-264 REF
1967 464.8 AN72
Plant nematodes, Reviews, Taxonomy.

13334-69
ON THE OCCURRENCE OF LEAF NEMATODES ON WEEDS AND OTHER WILD PLANTS. (GE)
F Burckhardt
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):71-75
Feb 1967 410.9 G31M
Aphelenchoides fragariae, Catalogs, Host records, Leaves, Plant nematodes. English abstract

13335-69
NEMATODE CONTROL LIFTS GINGER YIELDS.
R C Colbran
Queensland Agr J 94(10):603-605
Oct 1968 23 Q33
Crop yields, Meloidogyne incognita, Meloidogyne javanica, Plant nematodes, Plant pest control, Soil fumigation, Zingiber officinale.

13336-69
STUDIES OF PLANT AND SOIL NEMATODES. 13. TYLENCHULUS CLAVICAUDATUS N. SP. (NEMATODA: TYLENCHULIDAE), A PARASITE OF THE LIANA DEERINGIA ARBORESCENS (R. BR.) DRUCE.
R C Colbran
Queensland J Agr Anim Sci 23(3):423-426
Sep 1966 23 Q37
Nematode morphology, Plant nematodes, Taxonomy, Tylenchulus.

13337-69
NEMATODE PROBLEMS IN AREAS OF STRAWBERRY CULTIVATION IN HESSEN-NASSAU. (GE)
R Dern
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):76-81 MAP
Feb 1967 410.9 G31M
Aphelenchoides fragariae, Chemical control (nematodes), Ditylenchus dipsaci, Longidorus elongatus, Plant nematodes, Strawberries, Xiphinema diversicaudatum, Zoogeography. English abstract

13338-69
NEW POSSIBILITIES FOR THE CONTROL OF PARASITIC PLANT NEMATODES WITH FENSULFOTHION. (GE)
B Homeyer
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):50-57 REF
Feb 1967 410.9 G31M
Chemical control (nematodes), Diethyl O-p-((methylsulfinyl)phenyl) phosphorothioate, O, Ditylenchus dipsaci, Pesticide residual activity, Plant nematodes, Sugar beets. English abstract

13339-69
EFFECT OF NEMATOCIDES ON NEMATODE-TRAPPING FUNGI ASSOCIATED WITH THE CITRUS NEMATODE.
R Mankau
Plant Dis Rep 52(11):851-855
Nov 1968 1.9 P69P
Chloro-2,3-dibromopropane, 1-, Citrus, Culture media, Dichloropropane dichloropropene mixture, Ethylene dibromide, Nematocides, Soils.

13340-69
THE SOYBEAN CYST NEMATODE IN FLORIDA.
V G Perry R S Mullin G C Smart
Soil Crop Sci Soc Fla Proc 27:1-4
1967 56.9 SO32
Crop rotation, Crop varieties, Heterodera glycines, Nematocides, Plant nematodes, Plant pest control, Plant pest resistance, Soybeans.

13341-69
PREPLANT SOIL FUMIGATION FOR CALIFORNIA HEAD LETTUCE.
J D Radewald P G Mowbray A O Ulus F Ibuya J M Rible
Plant Dis Rep 53(5):385-389
May 1969 1.9 P69P
Chemical control (nematodes), Dichloropropane, 1,3-, Lettuce, Meloidogyne hapla, Plant nematodes, Soil fumigation, Trichodorus, Tylenchorhynchus clarus.

13342-69
CHEMICAL CONTROL OF STEM NEMATODES IN RED CLOVER. (GE)
F Wagner
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):58-61
Feb 1967 410.9 G31M
Chemical control (nematodes), Crop rotation, Diethyl O-p-((methylsulfinyl)phenyl) phosphorothioate, O, Ditylenchus dipsaci, Persian clover, Plant nematode resistance, Red clover. English abstract

13343-69
TESTS ON THE CONTROL OF NEMATODES OF THE GENUS MELOIDOGYNE ON TOBACCO. (IT)
N Zambelli A De Leonardis A Kovacs
Giornate Fitopatol 425-435
26 Mar 1967 SB599.G5
Chemical control (nematodes), Dichloropropane dichloropropene mixture, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Dimethyl S-benzenesulfonyl phosphorodithioate, O,O-, Meloidogyne, Plant nematodes, Tables (data), Telone, Temik, Tobacco.

WEEDS

13344-69
DEGRADATION OF 2,4,5-TRICHLOROPHENOXYACETIC ACID IN WOODY PLANTS.
C H Fitzgerald C L Brown E G Beck
Plant Physiol 42(3):459-460
Mar 1967 450 P692
Chemical analysis, Chromatography, Degradation, Herbicides, Phenoxy acid compounds, Trichlorophenoxyacetic acid, 2,4,5-.

13345-69
CHEMICAL WEED CONTROL IN WHEAT: COMPARISON AMONG VARIOUS TIME PERIODS OF APPLICATION AND AMONG OLD AND NEW HERBICIDES. (IT)
S Foschi G Rapparini
Giornate Fitopatol 483-492
26 Mar 1967 SB599.G5
Chemical control (weeds), D, 2,4-, Dinitrobutylphenol, Dinitrocresol, Herbicide application, Herbicides, Ioxynil, Tables (data), Wheat. Other less effective herbicides were tested.

13346-69
HERBICIDES FOR NEWLY PLANTED STRAWBERRIES.
H M Hughes
Exp Hort (18):77-82
1968 80 EX7
Chemical control (weeds), Chloroxuron, Crop yields, Herbicides, Simazine, Strawberries, Weed control.

13347-69
RECOMMENDATIONS FOR WEED CONTROL IN CEREAL CROPS.
B H Hyde-Wyatt
Tasmanian J Agr 39(3):245-250
Aug 1968 23 T182T
Catalogs, Chemical control (weeds), D, 2,4-, Grain, Herbicide application, Methodology, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds, Spraying.

The appropriate herbicides to use in controlling weeds in cereal crops are discussed, with particular emphasis on correct timing and dosage.

13348-69
COTTON THISTLE.
B H Hyde-Wyatt
Tasmanian J Agr 39(1):43-46
Feb 1968 23 T182T
Amitrole, Chemical control (weeds), Dicamba, Diquat, Onopordum acanthium, Plant geography, Surface-active agents, Weed control.

Diquat, amitrole and dicamba were tested for the control of cotton thistle (Onopordum acanthium) in Tasmania. Diquat with the surfactant, Agral 60, was more effective than the other chemicals tested.

13349-69
LIFE EXPECTANCY OF A SAGEBRUSH CONTROL IN CENTRAL WYOMING.
W M Johnson
J Range Manage 22(3):177-182
May 1969 60.18 J82
Artemisia tridentata, Brush control, Grasses, Herbicides, Ranges, Spraying.

13350-69
WILD OATS.
Great Brit Min Agr Fish Food Adv Leafl (452):8P
1968 10 G79LA
Avena fatua, Avena ludovicina, Barban, Chemical control (weeds), Cultural control (weeds), Diallate, Ditylenchus dipsaci, Herbicides, Heterodera avenae, Isopropyl N-phenylcarbamate, Paraquat, Plant nematodes, Seeds, Triallate, Trichloroacetic acid.

13351-69
CROP-WEED COMPETITION FOR PHOSPHATE NUTRITION.
K C Misra H N Pandey K L Mukherjee
Trop Ecol 9(2):243-250 REF
Dec 1968 451 IN85
Crops, Phosphates, Plant ecology, Plant nutrition, Weeds.

13352-69
SELECTIVITY OF 2,3,5-TRICHLORO-4-PYRIDINOL AS A HERBICIDE FOR DIRECT-SEEDED, FLOODED RICE.
J C Moomaw D S Kim
Weed Res 8(3):163-169
Sep 1968 79.8 W412
Biochemistry, Chemical control (weeds), Echinochloa crus-galli, Herbicide application, Herbicides, Plant physiology, Pyriclor, Rice, Seed germination. French and German summaries.

13353-69
THE CLASSIFICATION OF AGROPYRON REPENS FLORETS AND CARYOPSES.
M Olesen
Int Seed Testing Ass Proc 33(2):248-251
10 Jul 1967 61.9 IN84P
Agropyron repens, Seed analysis, Seeds, Weeds.

13354-69
BIOCHEMICAL ASPECTS OF PARASITISM BY THE ANGIOSPERM PARASITES. I. PHOSPHATE FRACTIONS IN THE LEAVES OF LORANTHUS AND HOSTS.
S Prakash P S Krishnam K K Tewari
Plant Physiol 42(3):347-351 REF
Mar 1967 450 P692
Deoxyribonucleic acid, Loranthus, Parasitic plants, Phosphates, Phospholipids, Phosphoproteins, Plant biochemistry, Ribonucleic acid.

13355-69
ON THE USE OF HERBICIDES IN VIETNAM; A STATEMENT BY THE BOARD OF DIRECTORS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
D K Price et. al.

Science 161(3838):253-255
19 Jul 1968 470 SCI2
Brush control, Chemical control (weeds), Herbicides, Plant biochemistry. Includes three supplementary statements.

13356-69
PRINCIPLES OF WEED CONTROL. I.
J E Rawson
Queensland Agr J 94(10):596-602
Oct 1968 23 Q33
Weed control.

13357-69
THE CHANGING POPULATION OF VIABLE WEED SEEDS IN AN ARABLE SOIL.
H A Roberts
Weed Res 8(3):253-256
Sep 1968 79.8 W412
Biochemistry, Chemical control (weeds), Crop rotation, Crop yields, Plant physiology, Population, Seedlings, Soils, Tillage, Vegetables, Weeds.

13358-69
WEED COMPETITION IN RICE.
R J Smith
Weed Sci 16(2):252-255 REF
Apr 1968 79.8 W41
Aeschynomene virginica, Competition, Crop yields, Echinochloa crusgalli, Heteranthera, Rice, Sesbania exaltata, Weeds.

13359-69
EFFECT OF SIMAZINE ON NITRATE REDUCTASE ACTIVITY IN CORN.
J A Tweedy S K Ries
Plant Physiol 42(2):280-282 REF
Feb 1967 450 P692
Corn, Herbicides, Nitrate reductase, Plant biochemistry, Simazine.

13360-69
WEED CONTROL IN UPLAND RICE AT THE UNIVERSITY OF THE PHILIPPINES COLLEGE OF AGRICULTURE.
M R Vega J D Ona E C Paller
Philippine Agr 51(5):397-411
Oct 1967 25 P542
Azido-4-(tert-butylamino)-6-(ethylamino)-s-triazine, 2-, Chemical control (weeds), Chloro-o-tolyl)oxy)-N-methoxyacetamide, 2((4-, Crop yields, Cultural control (weeds), D, 2,4-, Dimethyl tetrachlorothioterephthalate, O,S-, Herbicides, Methyl-2,3,5,6-tetrachloro-N-methoxy-N-methyl-terephthalama t, Methylsulfonyl)-2,6-dinitro-N,N-dipropylaniline, 4-(, Plant physiology, Rice, Spraying, Trifluralin.

13361-69
WEEDS AS A FACTOR DEPRESSING FOREST GROWTH.
S A Wilde B A Shaw A W Fedkenheuer
Weed Res 8(3):196-204 REF
Sep 1968 79.8 W412
Absorption, Crop yields, Forest conservation, Forests, Pinus resinosa, Soils, Water, Weeds. French and German summaries

13362-69
HOW YOU CAN CONTROL WEEDS IN RAPESEED.
D Wreford
Good Farming 19(2):48-49
Mar 1968 7 G59
Avena fatua, Barban, Chemical control (weeds), D, 2,4-, Dalapon, Diallate, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Millet, Phenoxy acid compounds, Plant regulators, Rapeseed, Spraying equipment, Triallate, Trichloroacetic acid.

13363-69
WHEATGRASS ESTABLISHMENT WITH TILLAGE AND HERBICIDES IN A MEDUSAHEAD COMMUNITY.
J A Young R A Evans R E Eckert
J Range Manage 22(3):151-155 REF
May 1969 60.18 J82
Agropyron, Atrazine, Chlorinated hydrocarbons, Dalapon, Elymus caput-medusae, Grasses, Herbicides, Tillage, Weed control.

OTHER PESTS

13364-69
ECOLOGICAL RELATIONSHIPS OF PLANT COMMUNITIES AND ECTOPARASITES OF RODENTS IN THE GREAT SALT LAKE DESERT.
D E Johnson D D Parker E D Vest
Utah Acad Sci Arts Lett Proc 45(1):130-147
1968 500 UT1
Parasitic insects, Plant ecology, Rodents, Surveys.

13365-69
THE RABBIT.
Great Brit Min Agr Fish Food Adv Leafl (534):1-8
Dec 1966 10 G79LA
Biology, Crop losses, Hydrocyanic acid, Myxomatosis, Pest control, Rabbits, Traps.
The life cycle of rabbits, their destructive nature and control are discussed. Gassing with hydrogen cyanide, trapping, hunting with dogs and guns, ferreting, snaring, netting, dazzling with spot lights, fencing and repellents are recommended as means of control.

LIVESTOCK PROTECTION

13366-69
COUPLING OF ANAEROBIC METABOLISM TO ANAEROBIC SODIUM TRANSPORT: A HIGH ENERGY INTERMEDIATE.
S Klahr J Bourgoignie N S Bricker
Nature 218(5143):769-770 REF
25 May 1969 472 N21
Adenosine triphosphatase, Adenosine triphosphates, Animal physiology, Biochemistry, Bladder, Dinitrophenol, 2,4-, Metabolism, Sodium, Turtles.

DISEASES

13367-69
EFFECT OF DEXTROSE IN MEDIUM FOR THE PREPARATION OF MYCOPLASMA GALLISEPTICUM PLATE ANTIGENS.
H E Adler A J DaMassa
Appl Microbiol 16(4):558-562
Apr 1968 448.3 AP5
Antigens, Culture media, Glucose, Mycoplasma gallisepticum.

13368-69
D.P.I. TICK FEVER VACCINE FOR RELIABILITY.
Anonymous
Queensland Agr J 94(10):618-622
Oct 1968 23 Q33
Babesia argentina, Cattle, Crop losses, Insect vectors, Ixodides, Livestock diseases, Piroplasmosis, Vaccines.

13369-69
HISTOCHEMICAL ANALYSIS OF ALKALINE PHOSPHATASE IN THE LIVER OF GOATS INFECTED WITH FOOT-AND-MOUTH DISEASE VIRUS.
R C Bhalla G L Sharma
Indian J Vet Sci Anim Husb 37(1):32-38
Mar 1967 41.8 IN22
Alkaline phosphatase, Foot-and-mouth disease virus, Goats, Histochemistry, Histopathology, Liver, Livestock diseases.

13370-69
OEDEMA DISEASE IN PIGS.
J Cerny
Tasmanian J Agr 39(2):138-139
May 1968 23 T182T
Antibiotics, Edema, Escherichia coli, Feed additives, Infectious diseases, Livestock diseases, Preventive medicine, Swine, Veterinary medicine.
Edema in pigs, caused by Escherichia coli bacteria is described and although there is no effective treatment, preventative measures with antibiotics are discussed.

13371-69
A HERPES VIRUS INFECTION OF PIGEONS.
H J C Cornwell A R Weir E A C Follett
Vet Rec 81(11):267-268
09 Sep 1967 41.8 V641
Herpesviruses, Infectious diseases, Pigeons.

13372-69
CONTRIBUTION TO THE KNOWLEDGE OF PRIMITIVE TUMORS OF THE HEART IN DOMESTIC ANIMALS: GLOBOMYELOMA IN A COW. (IT)
S Damiano A Zacchi
Acta Med Vet 13(5/6,SEP-DEC):335-347
1967 41.8 AC84
Cattle, Heart, Livestock diseases, Lungs, Lymph nodes, Metastasis, Neoplasms, Round cell sarcoma, Uterus. English and French summaries.

13373-69
BOVINE LEPTOSPIRA POMONA INFECTION: ENVIRONMENTAL CONTAMINATION AND THE SPREAD OF THE DISEASE IN A SUSCEPTIBLE HERD.
P C Doherty
Queensland J Agr Anim Sci 24(3-4,SEP-DEC):329-341 REF
Dec 1967 23 Q37
Cattle, Environment, Epizootic diseases, Infectious diseases, Leptospira pomona, Livestock diseases.

13374-69
PARTIAL PURIFICATION OF THE ORGANISM OF PSITTACOSIS GROWN IN CHICKEN EMBRYO YOLK SAC.
W G Dorsey W N Shircy W C Patrick
Appl Microbiol 16(1):166-167
Jan 1968 448.3 AP5
Chickens, Extraction, Miyagawanella group viruses, Psittacosis, Tissue culture.

13375-69
MYCOTOXICOSIS: TOXICITY TO CHICKS OF ALTERNARIA LONGIPES ISOLATED FROM TOBACCO.
B Doupnik E K Sobers
Appl Microbiol 16(10):1596-1597
Oct 1968 448.3 AP5
Alternaria, Chickens, Mycotoxicosis, Tobacco, Toxicology.

13376-69
LABORATORY BATCH PRODUCTION OF BACILLUS THURINGIENSIS SPORES AND CRYSTALS.
N R Dubois
Appl Microbiol 16(7):1098-1099
Jul 1968 448.3 AP5
Bacillus thuringiensis, Culture media, Insect diseases.

13377-69
STUDIES ON THE ANEMIOGENIC PROPERTIES OF TRIMETHYLAMINE OXIDE, AN ETIOLOGICAL FACTOR IN FISH-INDUCED ANEMIA IN MINK.
F Ender A Helgebostad
Acta Vet Scand 9(2):174-176
1968 41.8 AC87
Anemia, Dosage, Drug therapy, Fish, Hematologic diseases, Iron, Minks, Oxides, Trimethylamine.

13378-69
STRAIN MC29 AVIAN LEUKOSIS VIRUS: IMMUNOLOGIC RELATIONSHIPS TO OTHER AVIAN TUMOR VIRUSES.
R B Fritz A J Langlois D Beard J W Beard
J Immunol 101(6):1199-1206, REF

Dec 1968 448.8 J8232
Avian leukosis complex viruses, Chick embryos, Immunity, Neoplasms, Viruses.

13379-69
ANTIRABIES VACCINES INACTIVATED BY BETA-PROPIOLACTONE PREPARED FROM NEW-BORN KID AND MOUSE BRAINS. (FR00)
J Gledel B Mered P Sureau
Inst Pasteur Algerie Arch 46:76-89 REF
1968 448.3 IN7A
Brain, Goats, Lyophilization, Methodology, Rabies vaccines, Sheep. English abstract.

13380-69
KALE ANAEMIA IN RUMINANTS. II. OBSERVATIONS ON KALEFED SHEEP.
C A Grant P Holtenius G Jonsson J Luthman C B Thorell
Acta Vet Scand 9(2):141-150
1968 41.8 AC87
Anemia, Feeding, Hematologic diseases, Kale, Lambs, Livestock diseases, Ruminants, Sheep. German and Swedish summaries.

13381-69
ENHANCED RECOVERY OF SALMONELLA MONTEVIDEO FROM ONION POWDER BY THE ADDITION OF POTASSIUM SULFITE TO LACTOSE BROTH.
J R Hall
Ass Offic Anal Chem J 52(5):940-942
Sep 1969 381 AS7
Biological assay, Lactose, Methodology, Onions, Potassium, Salmonella montevideo, Sulfites.

13382-69
RAPID TRANSFORMATION OF CELLS BY ROUS SARCOMA VIRUS.
H Hanafusa
Nat Acad Sci Proc 63(2):318-325 REF
Jun 1969 500 N21P
Biochemistry, Chick embryos, Morphology, Rous sarcoma virus, Tissue culture, Virus diseases (animals).

13383-69
SURVIVAL OF SPORZOITES OF LEUCOCYTOZOON IN BIRDS FOR ELEVEN DAYS.
R A Khan S S Desser A M Fallis
Can J Zool 47(3):347-350 REF
May 1969 470 C16D
Birds, Ducks, Leucocytozoon dubreuili, Leucocytozoon simondi, Liver.

13384-69
DOG VACCINATION IN THE CONTROL OF RABIES. (FR00)
P Lepine J Levaditi P Atanasiu J C Guillon A Gamet
Inst Pasteur Algerie Arch 46:151-156
1968 448.3 IN7A
Dogs, Immunization, Rabies vaccines, Virus diseases (animals). English abstract.

13385-69
DIBUTYLTIN DILAURATE. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(73):6625
17 Apr 1969 L1.451
Agricultural legislation, Coccidiosis, Dibutyltin dilaurate, Drug therapy, Drugs, Hexamitiasis, Poultry diseases, Regulations, Turkeys.

13386-69
CHLORHEXIDINE DIHYDROCHLORIDE. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(71):6493-6494
15 Apr 1969 L1.451
Agricultural legislation, Animal diseases, Bacteria, Cattle, Chlorhexidine, Drug therapy, Drugs, Horses, Infectious diseases, Metritis, Regulations, Vaginitis.

13387-69
AMPHETAMINE SULFATE. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(71):6493
15 Apr 1969 L1.451
Agricultural legislation, Amphetamine sulfate, Cattle, Dosage, Drug therapy, Drugs, Horses, Regulations, Veterinary medicine.

13388-69
FURASPOR LIQUID VETERINARY. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(73):6625
17 Apr 1969 L1.451
Agricultural legislation, Animal diseases, Animals, Bacteria, Dermatitis, Dogs, Drug therapy, Drugs, Infectious diseases, Labeling, Methoxymethyl)-5-nitrofuran, 2-(, Regulations, Veterinary medicine.

13389-69
HISTOSTAT. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(7.):6494
15 Apr 1969 L1.451
Agricultural legislation, Blackhead, Chickens, Dosage, Drug therapy, Drugs, Nitrophenylarsonic acid, 4-, Regulations, Turkeys, Veterinary medicine.

13390-69
ALKALINE PHOSPHATASE CHANGES IN CHICKEN TISSUES DURING NEWCASTLE DISEASE VIRUS INFECTION.
G Lust R L Squibb
Appl Microbiol 15(3):677
May 1967 448.3 AP5
Alkaline phosphatase, Biochemistry, Chickens, Newcastle disease virus, Tissue culture.

13391-69
USE OF DISK ELECTROPHORESIS FOR INVESTIGATION OF PROTECTIVE ANTIGEN OF BACILLUS ANTHRACIS ISOLATED BY THE METHOD OF ACID PRECIPITATION. (RUS0)
S N Maevskaya Yu V Ezepchuk
Biokhimiya 34(3):496-499
1969 385 B523
Antigens, Bacillus anthracis, Chemical analysis, Electrophoresis, Polysaccharides, Proteins.

13392-69
MORPHOLOGICAL OBSERVATIONS ON FASCIOLA GIGANTICA COBBOLD, 1855, WITH REMARKS ON THE VALIDITY OF FASCIOLA INDICA VARMA, 1953.
H C Malviya
Indian J Vet Sci Anim Husb 37(2):67-77 REF
Jun 1967 41.8 IN22
Fasciola gigantica, Morphology, Taxonomy, Trematoda.

13393-69
STUDIES ON THE MECHANISM OF ACTION OF THE SEMPLE ANTIRABIC VACCINE PRODUCED BY THE STATE VACCINE AND SERUM INSTITUTE, WARSAW.
J Oyrzanowska-Poplenska
Acta Microbiol Polon 16(2):127-136 REF
1967 448.3 AC82
Fluorescent antibody technic, Immunofluorescence, Rabies, Rats, Vaccines.

13394-69
ON GIANT EIMERIAN SCHIZONTS FROM TWO CASES OF COCCIDIOSIS IN KID.
B P Pande B B Bhatia P P S Chauhan P Kala
Indian J Vet Sci Anim Husb 37(1):58-65
Mar 1967 41.8 IN22
Coccidiosis, Eimeria, Goats, Livestock diseases, Microorganisms, Sporozoa.

13395-69
SALMONELLOSES IN AN ALGERIAN PEDIATRICS SERVICE. (FR00)
F Papa B Khati A Bouguermouh E Rocha L Sari
Inst Pasteur Algerie Arch 46:121-132 REF
1968 448.3 IN7A
Diagnosis, Human diseases, Salmonellosis. English abstract.

13396-69
THE OCCURRENCE OF COXIELLA BURNETII IN NORTH-WESTERN ENGLAND AND NORTH WALES. A REPORT FROM FIVE LABORATORIES OF THE PUBLIC HEALTH LABORATORY SERVICE.
J H Pennington P M Poole A J K Smith K L Thomas R V Noble
J Hyg 67(1):125-133 MAP REF
Mar 1969 449.8 J82
Antibodies, Cattle, Coxiella burnetii, Milk analysis, Rickettsial diseases, Serological tests, Surveys.

13397-69
CHEMICALLY CHARACTERIZED MEDIA FOR STUDY OF FOOT-AND-MOUTH DISEASE VIRUS IN BABY HAMSTER KIDNEY CELLS.
J Polatnick
Appl Microbiol 15(2):228-232
Mar 1967 448.3 AP5
Culture media, Foot-and-mouth disease virus, Hamsters, Kidneys, Tissue culture.

13398-69
APPLICATION OF T.K.T. MEDIUM FOR SCREENING BULK MILK SAMPLES FOR STREPTOCOCCUS AGALACTIAE.
D S Postle
U S Livestock Sanit Ass Proc 70:181-186
10 Oct 1966 49.9 UN3R
Crystal violet, Culture media, Dairy cattle, Livestock diseases, Mastitis, Milk, Milk analysis, Streptococcus agalactiae, Thallium sulfate, Toxins.

13399-69
THE GROWTH OF CANDIDA ALBICANS AND SALMONELLA TYPHIMURIUM IN MIXED CULTURES.
C Ramirez J P Ransom
Microbiol Espan 21(1-2,JAN-JUN):77-88 REF
1968 448.3 M583
Animal diseases, Bacteriology, Candida albicans, Culture media, Infectious diseases, Microorganisms, Salmonella typhimurium. English abstract

13400-69
TRYPANOSOMA GAMBIENSE, T. RHODESIENSE, T. BRUCEI, T. EQUIPERDUM, AND T. LEWISII PURIFICATION AND PROPERTIES OF PHOSPHOHEXOSE ISOMERASES.
E L Risby T M Seed J R Seed
Exp Parasitol 25(1):101-106 REF
Aug 1969 436.8 EX7
Biochemistry, Chromatography, Enzymes, Isomerases, Metabolism, Serological tests, Trypanosoma.

13401-69
TASMANIAN VET. HELPING TO COMBAT FOOT AND MOUTH OUTBREAK.
Tasmanian J Agr 39(1):46
Feb 1968 23 T182T
Animal diseases, Epidemiology, Foot-and-mouth discase, Veterinary medicine.

13402-69
VIRUSES TRANSMISSIBLE FROM LABORATORY ANIMALS TO MAN.
J O Tobin
Laboratory Anim 2(1):19-28 REF
Apr 1968 QL55.A1L3
Animal vectors, Disease transmission, Herpesvirus simiae, Human diseases, Laboratory animals, Virus diseases (animals).

13403-69
RABIES AND RABIES CONTROL IN WISCONSIN.
D O Trainer

Wis Acad Sci Arts Lett Trans 56:255-261
1968 500 W75
Animal diseases, Rabies, Surveys, Vaccines, Wildlife. Transactions is listed as 1967-68 to conform with year of publications.

ARTHROPODS

13404-69
TRIALS WITH NEGUVON IN THE CONTROL OF HYPODERMA LINEATUM.
R C Chhabra R M Sharma
Indian J Vet Sci Anim Husb 37(4):263-268 REF
Dec 1967 41.8 IN22
Cattle, Chemical control (insects), Drenches, Feed additives, Hypoderma lineatum, Organophosphorus compounds, Systemic insecticides, Trichlorfon.

13405-69
AEDES ATLANTICUS DYAR AND KNAB, FEEDING ON TURTLES.
W J Crans
Mosquito News 28(2):239
Jun 1968 421 M85
Aedes, Arboviruses, Feeding, Host relationships, Insect behavior, Turtles, Vectors.

13406-69
A FEEDING ASSOCIATION BETWEEN HIPPELATES (DIPTERA: CHLOROPIDAE) AND TABANIDAE ON CATTLE: ITS POSSIBLE ROLE IN TRANSMISSION OF ANAPLASMOSIS.
R H Roberts
Mosquito News 28(2):236-237
Jun 1968 421 M85
Anaplasmosis, Cattle, Chloropidae, Epizootic diseases, Feeding, Hippelates, Insect behavior, Insect vectors, Tabanidae.

13407-69
TABANID HOSTS IN ESTUARINE AND ALLUVIAL AREAS OF LOUISIANA.
B H Wilson C G Richardson
Entomol Soc Amer Ann 62(5):1043-1046
15 Sep 1969 420 EN82
Cattle, Deer, Food habits, Horses, Serodiagnosis, Tabanus.

PARASITES

13408-69
USE OF FORMALINIZED MYCOPLASMA GALLISEPTICUM ANTIGENS AND CHICKEN ERYTHROCYTES IN HEMAGGLUTINATION AND HEMAGGLUTINATION-INHIBITION STUDIES.
H E Adler A J Da Massa
Appl Microbiol 15(2):245-248
Mar 1967 448.3 AP5
Erythrocytes, Hemagglutination, Mycoplasma gallisepticum antigens, Serodiagnosis.

13409-69
INHIBITION OF OSTERTAGIA OSTERTAGI AT THE EARLY FOURTH LARVAL STAGE. II. THE INFLUENCE OF ENVIRONMENT ON HOST OR PARASITE.
J Armour F W Jennings G M Urquhart
Res Vet Sci 10(3):238-244 REF
May 1969 41.8 R312
Calves, Nematodes, Ostertagia ostertagi, Physiology.

13410-69
THE ENDOPARASITE BURDEN OF CATTLE IN THE KIMBERLEY REGION OF NORTH-WESTERN AUSTRALIA.
J Armstrong D W Robinson D R Lang
Australian Vet J 45(6):287-289
Jun 1969 41.8 AU72
Cattle, Endoparasites, Nematodiasis, Surveys.

13411-69
WORMS IN PIGS.
B W Bootes
Agr Gaz New S Wales 80(1):15-22
Jan 1969 23 N472
Ascaris lumbricoides suum, Diagnosis, Hyostrongylus rubidus, Life cycle, Macracanthorhynchus hirudinaceus, Metastrongylus, Nematode control, Parasitism, Pathogenesis, Stephanurus dentatus, Swine, Trichuris.

13412-69
STUDIES ON THE EFFECTS OF FEEDS DEFICIENT IN TRACE ELEMENTS, VITAMIN A, PROTEIN, CALCIUM AND PHOSPHORUS ON THE NATURAL RESISTANCE OF SHEEP TO COMMON LIVERFLUKE, FASCIOLA GIGANTICA COBBOLD, 1885.
P G Deo K C Tandon V Kumar H D Srivastava
Indian J Vet Sci Anim Husb 37(4):351-359
Dec 1967 41.8 IN22
Animal nutrition, Calcium, Fasciola gigantica, Feeding, Immunity, Livestock diseases, Phosphorus, Proteins, Sheep, Trace element nutrition, Vitamin A.

13413-69
GRAZING MANAGEMENT IN RELATION TO TRICHOSTRONGYLID INFESTATION IN LAMBS. I. INFLUENCE OF STOCKING RATE ON THE LEVEL OF INFESTATION.
N E Downey A Conway
Irish J Agr Res 7(3):343-362 REF
Dec 1968 10.5 IR45
Autopsies, Farm management, Forage plants, Grazing, Lambs, Larvae, Nematode infestation, Nematodirus, Parasitism, Statistical analysis, Trichostrongylus. The author compared the worm count between nematodirus and ostertagia species.

13414-69
INTESTINAL PARASITISM IN SWINE IN THE NORTHERN DEPARTMENT. (FR00)
J P Duee D Cornette G Moine
Rec Med Vet 145(7):691-710
Jul 1969 41.8 R24
Ascaris, Intestines, Nematodes, Strongyloides, Surveys, Swine. English and Spanish abstracts.

13415-69
TAENIA CRASSICEPS: INSULIN AND CARBOHYDRATE METABOLISM IN LARVAL FORMS.
G W Esch
Exp Parasitol 25(1):210-216 REF
Aug 1969 436.8 EX7
Biochemistry, Carbohydrates, Insulin, Larvae, Metabolism, Taenia.

13416-69
THE RESISTANCE OF RHABDITIS SP. AND ANGUINA TRITICI (NEMATODA) TO DRYING AND ACTION OF LOW AND SUPERLOW TEMPERATURES. (RUS0)
T Namatov
Zool Zhur 48(5):658-668 REF
May 1969 410 R92
Anguina tritici, Drying, Longevity, Nematodes, Rhabditis. English abstract.

13417-69
GEL FILTRATION AND DISC ELECTROPHORESIS OF A SOMATIC EXTRACT AND EXCRETIONS AND SECRETIONS OF HAEMONCHUS CONTORTUS LARVAE.
J T McL Neilson
Exp Parasitol 25(1):131-141 REF
Aug 1969 436.8 EX7
Antigens, Biochemistry, Electrophoresis, Excretion, Extracts, Haemonchus contortus, Larvae, Secretions.

13418-69
APPLICATION OF LUMINESCENT MICROSCOPY FOR THE IMMEDIATE DISCOVERY OF BLOOD-PARASITES OF DOMESTIC AND WILD ANIMALS. (RUS)
G H Shahmatov
Akad Nauk Tadzh Ssr Dokl 11(9):63-65
1968 511 AK193D
Animals, Blood parasites, Diagnosis, Livestock, Microbiology, Microorganisms, Microscopy, Wildlife.

13419-69
HYDATID DISEASE--DOG TESTING RESULTS TO 30TH NOVEMBER, 1967.
Tasmanian J Agr 39(1):57-58
Feb 1968 23 T182T
Dogs, Echinococcosis, Epidemiology, Surveys.

13420-69
DISTRIBUTION AND FATE OF C14-HEXACHLOROPHENE IN LIVER FLUKES (FASCIOLA HEPATICA L.).
W Thorsell L E Appelgren
Helminthologia 9(1-4):551-557 REF
1968 436.8 H36
Biochemistry, Carbon-14, Chromatography, Electrophoresis, Fasciola hepatica, Methylenebis(3,4,6-trichlorophenol), 2,2'-, Pesticides, Physiology. Russian and German abstract.

13421-69
DEVELOPMENTS IN CONTROL OF ECTOPARASITES OF LIVESTOCK.
J C Wood
Chem Indus 41:1731-1736
14 Oct 1967 382 M31C
Bovicola ovis, Carbamates, Chlorinated hydrocarbons, Insecticides, Ixodides, Livestock, Maggots, Mange, Melophagus ovinus, Organophosphorus compounds, Parasitic insects, Psoroptes communis.

COMMODITY PROTECTION

13422-69
REPORT ON MYCOTOXINS.
A D Campbell
Ass Offic Anal Chem J 51(2):290-293 REF
Mar 1968 381 AS7
Aflatoxin, Corn, Cottonseed, Food contamination, Gibberella zeae, Mycotoxins, Toxins.

13423-69
MICROBIAL CONTAMINATION CONTROL FACILITIES.
R S Runkle G B Phillips
New York, Van Nostrand Reinhold 198P, REF
1969 NBS899
Biological laboratories, Infectious diseases, Laboratory animals, Livestock, Microbiology, Veterinary laboratories. Laboratories serving medical, public health, and veterinary professions.

ARTHROPODS

13424-69
ANTS INDOORS.
Great Brit Min Agr Fish Food Adv Leafl (366):1-5
Nov 1966 10 G79LA
Baits, Carbon tetrachloride, Chemical control (insects), Chlordane, Chlorinated hydrocarbons, Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta(cd) p, Dieldrin, Formicidae, Insect control, Insect ecology, Insect pests, Insecticide application, Insecticides, Isopropoxyphenyl methylcarbamate, o-, Kerosine, Lasius niger, Life cycle, Lindane, Monomorium pharaonis, Trichlorfon.

Black ants (Lasius niger) and Pharaoh's ants (Monomorium pharaonis), their life cycle and control are discussed. Methods of tracking for nest location, recommended insecticides and application techniques are provided.

13425-69
COCKROACHES.
Great Brit Min Agr Fish Food Adv Leafl (383):1-7
Mar 1967 10 G79LA

Blatta orientalis, Blattella germanica, Blattidae, Carbamates, Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, Household pests, Hygiene, Industry, Insect biology, Insect morphology, Insect pests, Insecticide application, Insecticide resistant insects, Insecticides, Isopropoxyphenyl N-methylcarbamate, 2-, Periplaneta americana.

The biology and distinguishing characteristics of common household and industrial cockroaches are described. Hygienic practices, use of insecticides and various application techniques are recommended control measures.

13426-69
FACTORS INFLUENCING THE TOLERANCES OF SEEDS TO FUMIGANTS.
T D Yadav P Sircar P B Mookherjee
Indian J Entomol 30(3):209-216
Sep 1968 420 IN23
Carbon disulfide, Carbon tetrachloride, Corn, Ethylene dibromide, Ethylene dichloride, Fumigants, Phosphine, Rice, Seed treatment, Stored products, Temperature, Water, Wheat.

RODENTS AND OTHER PESTS

13427-69
GOPHACIDE. LATEST FINDINGS FROM STUDIES OF THIS NEW RODENTICIDE.
V B Richens
Pest Contr 35(9):28,30,58
Sep 1967 449.8 EX8
Baits, Bis(4-chlorophenyl) acetimidoylphosphoramidothioate, O,O-, Gophers, Rodent control, Rodenticides.

MICROBIAL CONTAMINATION

13428-69
GROWTH AND DESTRUCTION OF SALMONELLA TYPHIMURIUM IN EGG WHITE FOAM PRODUCTS COOKED BY MICROWAVES.
R E Baldwin M Cloninger M L Fields
Appl Microbiol 16(12):1929-1934 REF
Dec 1968 448.3 AP5
Eggs, Electromagnetic waves, Food contamination, Salmonella typhimurium.

13429-69
SALMONELLAE ASSOCIATED WITH FURTHER-PROCESSED TURKEY PRODUCTS.
F L Bryan J C Ayres A A Kraft
Appl Microbiol 16(1):1-9 REF
Jan 1968 448.3 AP5
Poultry products, Salmonella, Salmonella anatum, Surveys, Turkeys.

13430-69
SURVIVAL OF AEROBIC AND ANAEROBIC BACTERIA IN CHICKEN HEAT DURING FREEZE-DEHYDRATION, REHYDRATION, AND STORAGE.
J R Chipley K N May
Appl Microbiol 16(3):445-449
Mar 1968 448.3 AP5
Chickens, Clostridium, Freeze drying, Meat packing industry.

13431-69
EPIDEMIOLOGICAL STUDIES ON SALMONELLA SENFTENBERG. I. RELATIONS BETWEEN ANIMAL FOODSTUFF, ANIMAL AND HUMAN ISOLATIONS.
B C Hobbs M E Hugh-Jones
J Hyg 67(1):81-88
Mar 1969 449.8 J82
Animal diseases, Bacteriology, Epidemiology, Feed, Human diseases, Microorganisms, Salmonella senftenberg.

13432-69
SALMONELLA SENFTENBERG IN THE SUNDERLAND AREA.
D A Sanford D A Leslie J A McKeon P B Crone B C Hobbs
J Hyg 67(1):75-79
Mar 1969 449.8 J82
Bacteriology, Human diseases, Microorganisms, Salmonella senftenberg, Surveys.

13433-69
SIGNIFICANCE OF COLIFORMS AND ENTEROCOCCI IN FISH PRODUCTS.
S Varga G W Anderson
Appl Microbiol 16(2):193-196 REF
Feb 1968 448.3 AP5
Enterobacteriaceae, Fishery products, Sanitation.

RESIDUES

13434-69
STABILITY AND EFFECTS OF SOME PESTICIDES IN SOIL.
R Bartha R P Lanzilotta D Pramer
Appl Microbiol 15(1):67-75 REF
Jan 1967 448.3 AP5
Biochemistry, Carbon dioxide, Degradation, Nitrification, Pesticide residues, Soil microorganisms.

13435-69
STATISTICAL EXAMINATION OF A RAPID METHOD FOR THE DETERMINATION OF CHLORINATED HYDROCARBON RESIDUES IN HUMAN BLOOD.
D P Bonderman U Y Choi H L Hetzler K R Long
Ass Offic Anal Chem J 52(5):1063-1066
Sep 1969 381 AS7
Blood serum, Chemical analysis, Chlorinated hydrocarbons, Chromatography, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Pesticide residues.

13436-69
THE EFFECTS OF DIELDRIN ON DIATOMS.
J Cairns
Mosquito News 28(2):177-179
Jun 1968 421 M85
Algae, Biological assay, Chlorinated hydrocarbons, Dieldrin, Ecology, Insecticide residues, Streams.

A freshwater diatom, Navicula, representative of a major group in an ecosystem has been found to tolerate dieldrin in greater concentration than fish of aquatic invertebrates. If the tendency to concentrate, as with DDT, is a general phenomenon for persistent insecticides, streams contaminated with washouts from proximal mosquito control areas could present hazardous situations especially for fish feeding directly upon planktonic algae.

13437-69
CYCLODIENE CHEMISTRY. I. DERIVATIVE FORMATION FOR THE IDENTIFICATION OF HEPTACHLOR, HEPTACHLOR EPOXIDE, CIS-CHLORDANE, TRANS-CHLORDANE, AND ALDRIN PESTICIDE RESIDUES BY GAS CHROMATOGRAPHY.
A S Y Chau W P Cochrane
Ass Offic Anal Chem J 52(5):1092-1100 REF
Sep 1969 381 AS7
Aldrin, Chemical analysis, Chlordane, Chlorinated hydrocarbons, Chromatography, Cyclodiene compounds, Heptachlor, Heptachlor epoxide, Pesticide residues.

13438-69
CYCLODIENE CHEMISTRY. II. IDENTIFICATION OF THE DERIVATIVES EMPLOYED IN THE CONFIRMATION OF HEPTACHLOR, HEPTACHLOR EPOXIDE, CIS-CHLORDANE, AND TRANS-CHLORDANE RESIDUES.
W P Cochrane
Ass Offic Anal Chem J 52(5):1100-1105 REF
Sep 1969 381 AS7
Chemical analysis, Chlordane, Chlorinated hydrocarbons, Chromatography, Cyclodiene compounds, Heptachlor, Heptachlor epoxide, Isomerization, Pesticide residues.

13439-69
INFRARED, ULTRAVIOLET, AND VISIBLE SPECTROPHOTOMETRIC DETERMINATION IMIDAN IN ANIMAL DIPS AND SPRAYS.
F P Czech M D Mack G Evans
Ass Offic Anal Chem J 52(5):1017-1026
Sep 1969 381 AS7
Chemical analysis, Dimethyl S-phthalimidomethyl phosphorodithioate, O,O-, Pesticide residues, Spectrophotometry, Spraying, Ultraviolet rays.

13440-69
ATOMIC ABSORPTION ANALYSIS OF COPPER AND LEAD IN MEAT AND MEAT PRODUCTS.
E F Dalton A J Malanoski
Ass Offic Anal Chem J 52(5):1035-1038
Sep 1969 381 AS7
Absorption spectra, Chemical analysis, Copper, Lead, Meat, Spectrophotometry.

13441-69
DETERMINATION OF 2-NITROPROPANOL RESIDUES IN COTTONSEED.
J M Devine B Fletcher G Zweig
Ass Offic Anal Chem J 52(5):1106-1107
Sep 1969 381 AS7
Chemical analysis, Chromatography, Cottonseed, Nitropropane-1,3-diol derivatives, 2-, Pesticide residues.

13442-69
PESTICIDE QUEST: RESIDUE SURVEYS AND TOLERANCES.
H Egan
Chem Indus 41:1721-1730
14 Oct 1967 382 M31C
Agricultural regulation, Chlorinated hydrocarbons, Food contamination, Organophosphorus compounds, Pesticide residues, Tolerances, Toxicology, World agricultural situation.

13443-69
DETERMINATION OF ETHYLENE CHLOROHYDRIN, ETHYLENE DIBROMIDE AND OTHER VOLATILE FUMIGANT RESIDUES IN FLOUR AND WHOLE WHEAT.
S G Heuser K A Scudamore
Chem Indus 37:1557-1560
16 Sep 1967 382 M31C
Ethylene chlorohydrin, Ethylene dibromide, Flour, Fumigants, Pesticide residues, Wheat.

13444-69
HERBICIDAL RESIDUES KILL GRASS SEEDLINGS.
A C Hull G J Klomp
Utah Acad Sci Arts Lett Proc 45(1):315-316
1968 500 UT1
Grasses, Herbicide residues, Plant injuries, Seedlings.

13445-69
NOTE ON A TWO-DIMENSIONAL THIN LAYER CHROMATOGRAPHIC TECHNIQUE FOR IDENTIFICATION OF PESTICIDE RESIDUES IN TROUBLESOME SAMPLES.
J A Kawatski D L Frasch
Ass Offic Anal Chem J 52(5):1108
Sep 1969 381 AS7
Aldrin, Chlorinated hydrocarbons, Chromatography, Dieldrin, Pesticide residues, TDE.

13446-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 2-CHLORO2',6'-DIETHYL-N-(METHOXYMETHYL) ACETANILIDE.
J K Kirk
Fed Regist 34(70):6419
12 Apr 1969 L1.451

Agricultural legislation, Agricultural products, Chloro-2',6'adiethyl-N-(methoxymethyl)-acetanilide, 2-, Cotton, Cottonseed, Forage plants, Herbicide residues, Herbieides, Metabolites, Peanuts, Pesticides, Raw materials, Regulations, Tolerances.

13447-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. O-ETHYL S,S-DIPROPYLPHOSPHORODITHIOATE.
J K Kirk
Fed Regist 34(70):6418-6419
12 Apr 1969 L1.451
Agricultural legislation, Agricultural produets, Corn, Ethyl S,S-dipropyl phosphorodithioate, O-, Insectieide residues, Pesticides, Raw materials, Regulation (pesticides), Tolerances.

13448-69
EFFECT OF HERBICIDES ON CELLULOSE DECOMPOSITION BY SPOROCYTOPHAGA MYXOCOCCOIDES.
W J Lembeck A R Colmer
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Ass Offic Anal Chem J 52(5):1027-1034 REF
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Biological assay, Cotton, Gossypol, Heliothis virescens, Heliothis zea, Insect nutrition, Insect pests, Plant pest resistance.

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OPPOSING EFFECTS OF GIBBERELLIN AND ETHYLENE.
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Abscission, Ethylene, Gibberellins, Plant biochemistry, Plant physiology.

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Biochemistry, Degradation, Enzymes, Fungi, Lignin.

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Ethylene, Gibberellic acid, Plant biochemistry, Plant hormones, Synthesis.

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Amitrole, Catalase, Cotton, Cucumbers, Culture media, Enzymes, Glycosides, Herbicides, Lolium multiflorum, Peanuts, Phosphates, Plant biochemistry, Plant physiology, Porphyrins, Purines, Wheat.

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Aspergillus, Chemistry, Chromatography, Ochratoxin, Purification procedures.

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Chemical analysis, Chromatography, Malathion, Methyl parathion, Organophosphorus compounds, Parathion, Pesticides, Trihutyl phosphorotrithioate, S,S,S-.

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Equipment, Fruit, Mechanization, Pest control, Plant protection, Spraying.

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Abbott, D C
England. ministry of Technology; Laboratory of The Government Chemist
13499

Abedi, Z H
Canada. dept. of National Health and Welfare. research; Laboratories, Ontario
13455

Adams, J B
Canada Dept. of Agriculture, Fredrieton
13297

Adams, R H
New Mexico State University, Las Cruces; Dept. of Entomology
13002

Adler, H E
California. university; Dept. of Epidemiology and Preventive Medicine
13367

Adler, H E
California. university; Dept. of Epidemiology and Preventive Medicine , Davis
13408

Agee, H R
U. S. dept. of Agriculture. agricultural Research Service; Entomology Research Division, Florence, S. C.
13003

Agee, H R
U. S. dept. of Agriculture. agricultural Research Service; Entomology Research Division, florence, S. C.
13004

Ahrorov, F
Tadjik Academy of Science, USSR; Inst. of Zoology and Parasitology
12936

Alexander, M L
Texas. university; Dept. of Zoology; Genetics Foundation
13152

Allen, A A
63 Blackheath Park, London
13298

Allen, M W
California. university; Dept. of Nematology, Davis
13333

Almeida, P R
Instituto Biologico, Sao Paulo, Brazil
13299

Almeida, W F
Instituto Biologico, Sao Paulo, Brazil; Div. de Microbiologia e Higiene
13456

Altorfer, N
Brussels. universite Libre; Faculte des Sciences
13153

Amos, T G
Dundee. university; Dept. of Biological Sciences
13005

Ando, K
Hawaii University, Honolulu
13300

Andreeva, E M
Tadjik Academy of Science, USSR; Inst. of Zoology and Parasitology
12937

Anwar, M
Hawaii University, Honolulu; Dept. of Entomology
13006

Apablaza, J U
Manitoba University, Winnipeg, Canada; Dept. of Entomology
13301

Armour, J
Glasgow. university; Wellcome Laboratories for Experimental Parasitology
13409

Armstrong, J
Australia. dept. of Agriculture, South Perth
13410

Arnheim, N
California. universlty; Dept. of Genetics, Berkeley
13154

Aulakh, K S
Punjab Agricultural Univ., Ludhiana, India; Dept. of Plant Breeding
13237

Ayerst, G
Wolverhampton. college of Technology; Dept. of Applied Science
13468

Babayev, T
Tadjik Academy of Science, USSR; Inst. of Zoology and Parasitology
13007

Bailey, J B
California University, Berkeley
13457

Baker, W K
Chicago. university; Dept. of Zoology
13155

Bakke, A
Norwegian Forest Research Institute, Vollebekk, Norway
13008

Baldwin, M
Connecticut. university; Dept. of Genetics
13156

Baldwin, R E
Missouri. university; Dept. of Food Science and Nutrition
13428

Banerjee, A C
Ford Foundation, New Delhi, India
13009

Barker, P S
Canada Dept. of Agriculture, Winnipeg, Manitoba; Research Station
13010

Barnes, M F
Manchester. university; Dept. of Chemistry, England
13469

Barnes, M M
California. university; Dept. of Entomology, Riverside
13011

Barr, A R
California. university; School of Public Health, Los Angeles
13012

Barreto, P
Tulane Univ.-Univ. del Valle, Cali, Colombia; International Center for Medical Research and Training
12938

Bartell, R J
Australia. commonwealth Scientific and Industrial Research; Organization, Canberra; Division of Entomology
13013

Bartha, R
Rutgers--The State University; Dept. of Biochemistry and Microbiology, New Brunswick
13434

Bauer, J W
Michigan. state University; Dept. of Entomology
13014

Bay, E C
California University, Riverside; Dept. of Biological Control
13015

Becker, M
Museu Rio-Grandense de Cieneias Naturais, Porto Alegre,; Brazil
12939

Beckham, C M
Georgia university, Experiment; College of Agriculture Experiment Stations
13016

Bei-Bienko, N G
Leningrad. all-Union Institute of Plant Protection
13017

Belozerov, V N
Leningrad. state University; Laboratory of Entomology
13018

Ben-Aire, R
Volcani Inst. of Agricultural Research, Rehovot, Israel
13238

Ben-Dov, Y
Hebrew University; Faculty of Agriculture
12940

Bender, H A
Notre Dame. university; Dept. of Biology
13157

Bennett, C W
U. S. agricultural Research Station, Salinas, Calif.
13239

Bennett, R G
Agricultural Research Council (England); Pest Infestation Laboratory, Slough
13019

Benson, W R
U. S. food and Drug Administration; Division of Pesticides, Wash. (city)
13501

Bent, K J
Berkshire. jealott's Hill Research Station, england
13240

Berendes, H D
Tubingen. max Planck Institut fur Biologie
13158

Bernardi, R
Istituto di Chimica del Politecnico, Milano, Italy
13020

Berry, R E
Oregon. state University; Dept. of Entomology
13021

Berry, R E
Oregon. state University; Dept. of Entomology
13022

Bhalla, R C
Agricultural Univ., Pantnagar, India; Coll. of Veterinary Science
13369

Black, H S
Sam Houston State College; Dept. of Biology, Huntsville, Tex.
13458

Blanchard, E E
Centro Nacional de Investigaciones Agropecuarias, Buenos; Aires; Instituto de Patologia Vegetal
12941

Bliekenstaff, C C
Committee On Common Names Of Insects
12942

Bonderman, D P
Iowa. university; Dept. of Preventive Medicine and Environmental Health
13435

Boomsma, C D
Woods and Forests Dept., South Australia
13229

Bootes, B W
Department of Agriculture newcastle, Australia
13411

Borden, J H
Fraser University, Burnaby, British Columbia; Dept. of Biological Sciences
13023

Borden, J H
Simon Fraser University, Burnaby, British Columbia; Dept. of Biological Sciences
13024

Bracker, C E
Purdue University; Dept. of Botany and Plant Pathology, Lafayette
13241

Bray, R P
Game Research Association, Fordingbridge, England
12943

Brian, R C
Imperial Chemical Industries Ltd.; Jealott's Hill Research Station, Berkshire, England
13470

Bright, D E
Canada Dept. of Agriculture, Ottawa; Entomology Research Institute
12944

Bright, D E
Canada Dept. of Agriculture, Ottawa; Entomology Research Institute
12945

Brimblecombe, A R
Department of Primary Industries, Brisbane, Australia; Entomology Section
13025

Brown, A
National Agricultural Advisory Service, Cambridge, England
13242

Bryan, F L
U. S. public Health Service. bureau of Disease Prevention; and Environmental Control; National Communicable Disease Center, Atlanta
13429

Bryant, E H
Houston. university; Dept. of Biology
13026

Burckhardt, F
Biologische Bundesanstalt fur Land-und Forstwirtschaft,; Munster, West Germany; Inst. fur Haekfruchtkrankheiten und Nematodenforsehung
13334

Burrows, B F
Imperial Chemical Industries Ltd., Alderley Park, England
13502

Burton, C L
U. S. Dept. of Agriculture, Chieago, Ill.; Agrieultural Researeh Serviee; Market Quality Researeh Division
13243

Butler, L
Toronto University, Ontario, Canada; Dept. of Zoology.
13027

Butte, J G
New York State Univ., Farmingdale; Dept. of Biology
12946

Cairns, J
Kansas Univ., Lawerence; Dept. of Zoology
13436

Campbell, A D
U. S. Food and Drug Administration, Washington, D. C.; Division of Food Chemistry
13422

Carlisle, D B
England. ministry of Overseas Development; Anti-Locust Researeh Centre
13028

Carlson, E A
California. university; Dept. of Zoology, Los Angeles
13159

Carson, H L
Washington University; Dept. of Biology
13160

Cartier, J J
Canada. ministere de l'Agriculture; Station de Recherches, Saint-Jean
13244

Carvalho, L de
Angola. museu do Dundo, Portugal
12947

Cerny, J
Tasmanian Dept. of Agrieulture, Hobart
13370

Chau, A S Y
Canada. department of Agrieulture. plant Produets; Division, Ontario
13437

Cheng, W Y
Taiwan. sugar Experiment Station, Tainan
13030

Chevone, B I
Massaehusetts. university; Dept. of Entomology
13031

Chhabra, R C
College of Veterinary and Animal Science, Hissar, India
13404

Chipley, J R
Georgia. university; Dept. of Food Science
13430

Chod, J
Prague. institute Of Plant Protection
13245

Chrispeels, M J
John Muir College; Dept. of Biology, La Jolla
13471

Chung, Y J
Ewha Women's College; Dept. of Science, Seoul, Korea
13161

Ciampolini, M
Societa S. I. P. C. A. M., Milan, Italy
13303

Ciampolini, M
Societa S. I. P. C. A. M., Milan, Italy
13304

Claxton, J H
New England. university; School of Rural Seienee, Australia
13162

Clay, T
British Museum, Cromwell Road, London
12948

Cleland, C F
Harvard Univ., Cambridge, Mass.; Biologieal Labs.
13472

Cochrane, W P
Canada. dept. of Agrieulture. plant Produets Division,; Ontario
13438

Cohen, D
Carleton. university; Dept. of Biology, Canada
13473

Colhran, R C
Department of Primary Industries, Brisbane, Australia; Seienec Labs.
13336

Cole, M M
Agrieultural Researeh Serviec, Gainesville, Fla. 32601; Entomology Research Div.
13032

Collins, J A
Kentucky. university; Dept. of Animal Scienecs
13459

Coppedge, J R
Texas Agrieultural Experiment Station, Collegc Station
13305

Cornwell, H J C
Glasgow University; Dept. of Veterinary Pathology
13371

Coster, J E
Thompson (Boyce) Institute; Forest Research Laboratory, Beaumont, Tex.
13033

Crans, W J
Rutgers--The State Univ., New Brunswick, N. J.; Dept. of Entomology and Economic Zoology
13034

Crans, W J
Rutgers--The State Univ., New Brunswick, N. J.; Dept. of Entomology and Eeonomie Zoology
13405

Crewe, R M
Natal. university; Dept. of Bioehemistry, South Africa
13035

Cross, W H
Agrieultural Research Service; Entomology Research Div.
13306

Crow, J F
Wisconsin. university; Genetics Laboratory
13163

Czech, F P
U. S. dept. of Agriculture. agrieultural Research Service; Animal Health Division.
13439

Dajani, R M
Ameriean Univ., Beirut, Lebanon; Dept. of Pharmacy
13036

Dalebroux, M A
France. institut National dc la Recherche Agronomique
13164

Dalton, E F
U. S. department of Agrieulture. consumer and Marketing; Service, Beltsville
13440

Damiano, S
Naples Univ., Italy; Istituto di Patologia Generale e Anatomia Patologica
13372

Daniarov, U R
Tadjik Aeademy of Seience, USSR; Inst. of Zoology and Parasitology
12949

Danilewicz, K
Warsaw. university; Dept. of Microbiology
13246

Davies, J B
Trinidad. regional Virus Laboratory; Medieal Researeh Council External Staff, Port of Spain
13038

Davis, C J
Hawaii Dept. of Agriculturc, Honolulu
13230

Davis, R
Georgia. university; Dept. of Entomology
13039

DeBach, P
California. university; Dept. of Biological Control, Riverside.
13040

del Rosario, D A
Phillippines Univ., College, Laguna; Dept. of Agrieultural Botany
13467

Deo, P G
Indian Veterinary Research Inst., Izatnagar
13412

Dern, R
Pflanzenschutzamt, Frankfurt am Main, West Germany
13337

Dewees, A A
Purdue University; Population Geneties Institute
13165

Dierauf, T A
Virginia Div. of Forestry; Dept. of Conservation and Economie Development
13474

Dierauf, T A
Virginia Div. of Forestry; Dept. of Conservation and Economic Development
13475

Dimitrijevic, M
High School of Agrieulture, Osijek, Yugoslavia
13247

Dmitrieva, E F
Leningrad. all-Union Institute of Plant Protection
13041

Dobrivojevic, K
Belgrade Univ., Yugoslavia; Faeulty of Agriculture
13307

Dobzhansky, T
Roekefeller University
13166

Dobzhansky, T
Roekefeller University
13167

Doherty, P C
Moredun Inst., Edinburgh, Seotland
13373

Dorsey, W G
U. S. army. fort Detriek, Frederick
13374

Douglas, G
Imperial Chemieal Industries Ltd., Bracknell, Berkshire,; England; Jealott's Hill Rcsearch Station
13503

Doupnik, B
Georgia. university; College of Agriculture; Dept. of Plant Pathology
13375

Downey, N E
An Foras Taluntais, Dunsinea, Castleknoek, Ireland
13413

Druger, M
Syracuse. university; Dept. of Zoology
13168

Dubois, N R
U. S. dept. of Agrieulture. forest Service; Forest Inseet and Disease Laboratory, Hamden, Conn.
13376

Duee, J P
Paris. institut Pasteur; Laboratoire veterinaire departmental
13414

Eckert, J W
California. university; Dept. of Plant Pathology, Riverside
13248

Edney, E B
California. university; Dept. of Life Seienecs, Riverside
13043

Edwards, R
Rentokil Researeh Laboratories, Sussex, England
13044

Ehrman, L
Rockefeller Univ., New York, N. Y.
13045

Eisner, T
Cornell Univ., Ithaca, N. Y.; Div. of Biologieal Seienees
13047

Elbadry, E
Ain Shams University; Faculty of Agrieulture, Egypt
12952

Elliott, C G
Glasgow. university; Dept. of Botany
13476

Ender, F
Norway Veterinary Coll., Oslo; Dept. of Biochemistry
13377

Esau, K
California. university; Dept. of Biological Sciences, Santa Barbara
13249

Esch, G W
Wake Forest. university; Dept. of Biology, Winston-Salem
13415

Evans, H E
Harvard University; Museum of Comparative Zoology, Cambridge, Mass.
12953

Evans, N A
California Univ., Berkeley; Coll. of Agricultural Sciences
13250

Eveling, D W
Guildford. technical College, England
13477

Faulhaber, S H
St. Mary's. college (Calif.)
13169

Fedoseeva, L I
Moscow. state University; Dept. of Entomology, USSR
12954

Feir, D
St. Louis Univ., Mo.; Dept. of Biology
13048

Fischbach, H
U. S. food and Drug Administration; Division of Pesticides, Wash., (City)
13460

Fitzgerald, C H
Georgia. university; School of Forestry
13344

Foschi, S
Osservatorio per le Malattie delle Piante, Bologna, Italy; Sezione di Patologia Vegetale
13345

Franca, Z M
Sao Paulo Univ., Brazil; Dept. de Biologia Geral
13170

Freyvogel, T A
Swiss Tropical Institute, Basel
13049

Frezzi, M J
Estacion Experimental, Manfredi, Argentina; Lab. de Fitopatologia
13251

Fritz, R B
Duke University Medical Center, Durham, North Carolina; Dept Of Surgery
13378

Gallun, R L
U. S. dept. of Agriculture. agricultural Research Service; Entomology Research Division, Lafayette, Ind.
13171

Galvao, A B
Goias Federal Univ., Goiania, Brazil; Inst. Central de Patol ogia Tropical
12956

Gard, I E
California. university; Division of Entomology, Berkeley
13050

Garraway, J L
London. university; Wye College
13252

Garrett, L E
Berniee P. Bishop Museum, Honolulu, Hawaii
12957

Georgopoulos, S G
Greeee. nuelear Research Center Demoeritus ; Dept. of Biology, Athens
13253

Gess, F W
South African Museum, Cape Town
12958

Gethmann, R C
Chicago. university; Dept. of Zoology
13172

Ghosh, A K
Calcutta University, Calcutta, India; Dept. of Zoology; Entomological Laboratories
12959

Ghosh, D
Texas. southern University; Dept. of Biology
13051

Gifford, J R
U. S. Agricultural Research Service, Baton Rouge, Louisiana; Entomology Research Division
12960

Gillies, M T
Sussex. university; School of Biological Sciences
13052

Glancey, B M
Agricultural Research Service, Gainesville, Fla.; Entomology Research Div.
13219

Gledel, J
Algeria. institut Pasteur; Service de la Rage
13379

Golebiowska, Z
Poznan. plant Protection Institute
13053

Golubev, A V
Moscow. forest-Technical Institute, USSR
13054

Goodchild, A J P
Bath. university of Technology; School of Biological Sciences, England
13055

Goren, R
Hebrew University; Dept. of Citriculture, Rehovot
13478

Goring, C A I
Dow Chemical Co.; Bioproduets Research, Walnut Creek, Calif.
13254

Gouck, H K
U. S. dept. of Agriculture. agricultural Research Service; Entomology Research Division, Gainesville, Fla.
13220

Graham, M W R de V
Oxford. university Museum; Hope Dept. of Entomology, England
12962

Graham, P
Lindenwood College, St. Charles, Mo.
13058

Graham, P
Lindenwood College, St. Charles, Mo.
13059

Grant, C A
Karolinska Sjukhuset, Stockholm, Sweden; Dept. of Pathology
13380

Gras, G
Montpellier. university; Faculte de Pharmacie
13060

Green, M M
California. university; Dept. of Genetics, Davis
13173

Greene, H C
Wisconsin. university; Dept. of Botany
13255

Grelh, T B
Poznan. institute for Plant Protection; Virus Laboratory
13256

Grimes, W H
Chemagro Corp., Kansas City, Mo.
13504

Grokhovskaya, I M
USSR. academy of Medical Sciences; Institute of Epidemiology and Microbiology, Moscow
12963

Grokhovskaya, I M
USSR. academy of Medical Sciences; Institute of Epidemiology and Microbiology, Moscow
12964

Grover, R
Canada Agricultural Research Station, Regina
13479

Guerra, A A
U. S. Agricultural Research Service, Brownsville, Texas; Entomology Research Division
13061

Gurjanova, T M
Moscow. forest-Technical Institute, USSR
13309

Guschlbauer, W
Centre d'Etudes Nucleaires de Saclay, France; Service de Biochimie
13257

Guy, Y
Algeria. faculte Mixte de Medecine et de Pharmacie; Laboratoire dc Parasitologie et de Zoologie medicale
12965

Gysin, J
Algeria. institut Pasteur; Service d'Epidemiologie et de Parasitologie
12966

Hackman, R
Finland. research Laboratories of Medica, Helsinki
13062

Hall, J R
U. S. food and Drug Administration, Seattle
13381

Hanafusa, H
New York (city). public Health Research Institute
13382

Hansen, E
Oregon State Univ., Corvallis
13258

Harden, F W
General Electric Co., Bay Saint Louis, Miss.; Miss. Test Support Dept.
13221

Hayes, M H B
University of Birmingham, Birmingham, England; Dept. of Chemistry
13505

Hess, O
Tubingen. max Planck-Institut fur Biologie
13174

Hess, O
Freiburg. universitat; Zoologisches Institut
13175

Heuser, S G
Agricultural Research Council, Slough, England
13443

Hiraizumi, Y
Hawaii. university; Dept. of Genetics
13176

Hirano, K
Tohoku University, Sendai, Japan; Faculty of Education; Dept. of Natural Sciences
13506

Hohhs, B C
Central Public Health Lab., Colindale, England; Food Hygiene Lab.
13431

Homeyer, B
Leverkusen, West Germany
13338

Honeyborne, C H B
Bristol. university; Dept. of Agriculture and Horticulture, England
13310

Hooker, A L
Illinois. university; Dept. of Plant Pathology, Urbana
13259

Horikawa, M
Kyoto. university; Faculty of Medicine; Dept. of Experimental Biology
13063

Horne, F R
Southwest Texas. state College; Dept. of Biology
13064

Howell, D E
Oklahoma State University; Dept. of Entomology
13507

Hubby, J L
Chicago. university; Dept. of Zoology
13178

Huddart, H
Lancaster Univ., England; Dept. of Biological Sciences
13065

Hudspeth, W N
Georgia University, Athens; Dept. of Entomology
13480

Hughes, H M
Efford Experimental Horticulture Station, Lymington,; Hampshire, England
13346

Hyde-Wyatt, B H
Tasmanian Dept. of Agriculture, Hobart
13347

Hyde-Wyatt, B H
Tasmanian Dept. of Agriculture, Hobart
13348

Isaac, I
Swansea. university College; Dept. of Botany, Wales
13260

Ishihara, T
Ehime University, Matsuyama, Japan; College of Agriculture
12967

Jeff, A E
Rosewarne Experimental Horticulture Station, England
13261

Jenkins, J B
California. university; Dept. of Zoology, Los Angeles
13179

John, V T
All India Coordinated Rice Improvement Project, Hyderabad
13262

Johnson, C
Manchester Museum; Dept. of Entomology
12968

Johnson, D E
Utah. university
13364

Johnson, T
Canada. dept. of Agriculture. research Station, Winnipeg
13263

Johnson, W M
U.s. Forest Service, Fort Collins, Colorado; Rocky Mountain Forest and Range Experiment Station
13349

Jonsson, A G
Agricultural College; Dept. of Microbiology, Uppsala
12969

Josephson, K
Box Elder Mosquito Abatement District
13067

Jovicevic, B
Institute for Agricultural Research, Novi Sad, Yugoslavia
13264

Judd, W W
Western Ontario Univ., London; Dept. of Zoology
13068

Juretic, N
Zagreb. university; Botanical Institute
13265

Kaczynski, V W
Cornell University; Dept. of Entomology and Limnology, Ithaca
12970

Kale, P G
Banaras Hindu University; Dept. of Zoology
13180

Kangas, E
Helsinki Univ., Finland; Inst. for Agricultural and Forest Zoology
13069

Kearsey, M J
Birmingham. university; Dept. of Genetics
13181

Kenyon, A
Georgia. university; Dept. of Zoology
13182

Khan, R A
Toronto University, Canada; Dept. of Parasitology
13383

Kistner, D H
Chico. state College; Dept. of Biology, Calif.
13070

Kitagawa, O
Tokyo Metropolitan University; Dept. of Biology
13183

Kitasaki, K
United States Borax and Chemical Corp., Los Angeles, Calif.
13509

Kitasaki, K
United States Borax and Chemical Corp., Los Angeles, Calif.
13510

Klahr, S
Washington Univ. School of Medicine., St. Louis, Mo.; Renal Div.
13366

Klement, Z
Budapest. research Institute for Plant Protection
13267

Klots, A B
American Museum of Natural History
13071

Kreutzer, R D
Illinois. university; Dept. of Zoology
13184

Krnjaic, S
Faculty of Agriculture, Belgrade, Yugoslavia
13072

Kuhn, R W
Washington State Univ., Pullman; Dept. of Chemistry
13073

Kurata, K
The Sericultural Experiment Station, Suginami-ku, Tokyo
13074

LaChance, L E
U. S. dept. of Agriculture. agricultural Research Service; Metabolism and Radiation Research Laboratory, Fargo
13185

Lafrance, J
Canada. dept. of Agriculture; Research Station, St. Jean
12972

Lall, S B
Udaipur. university; Dept. of Zoology
13075

Latch, G C M
Department of Scientific and Industrial Research,; Palmerston North, New Zealand; Plant Diseases Div.
13268

Lavigne, R J
Wyoming. university; Entomology Section
13076

Lawrence, J F
California. university, Berkeley
13077

Lee, B L
Auburn University. agricultural Experiment Station; Dept. of Zoology and Entomology, Ala.
13078

Lee, W R
Texas. university; Dept. of Zoology
13186

Lefevre, G
San Fernando Valley. state College; Dept. of Biology
13187

Lele, V C
Indian Agricultural Research Institute; Division of Mycology and Plant Pathology, New Delhi
13269

Lembeck, W J
Louisiana. state University; Dept. of Microbiology
13448

Lenler-Eriksen, P
Molslaboratoriet, Femmoler, Denmark
13079

Lent, H
Instituto Oswaldo Cruz, Rio de Janeiro, Brazil
13080

Leoni, V
Rome. universita; Instituto d'Igiene, Italy
13449

Lepine, P
Paris. institut Pasteur
13384

Lewis, S E
St. Cloud. state College; Dept. of Biology, Minn.
12973

Lindsay, K L
Ohio. state University; Academic Faculty of Entomology
13081

Lindt, I I
Tadjik Academy of Science, USSR; Inst. of Zoology and Parasitology
12974

Looney, N E
Canada Dept. of Agriculture, Summarland, British Columbia
13481

Lord, W J
Massachusetts Univ., Amherst
13482

Lucas, A M
Flinders Univ. of South Australia, Bedford Park; School of Biological Sciences
13082

Lukefahr, M J
U. S. Agricultural Research Service, Brownsville, Texas; Entomology Research Division
13483

Lum, P T M
U. S. dept. of Agriculture. agricultural Research Service; Stored-product Insects Research Branch
13083

Lust, G
U. S. army. fort Detrick Medical Unit, Frederick, Md.
13390

MacBean, I T
La Trobe University; School of Biological Sciences
13188

Macek, K
Prague. research Institute of Pharmacy and Biochemistry
13511

MacMillan, J
The University, Bristol, England; Dept. of Organic Chemistry
13484

Maddox, D M
U. S. dept. of Agriculture. agricultural Research Service; Entomology Research Division, Albany, Calif.
13084

Maevskaya, S N
Ssr. academy of Medical Sciences; Institute of Epidemiology and Microbiology, Moscow
13391

Mankau, R
California University, Riverside, Calif
13339

Marinkovic, D
Belgrade. university; Faculty of Science
13189

Marinkovic, D
Belgrade. university; Faculty of Science
13190

Marks, E P
U. S. dept. of Agriculture. agricultural Research Service; Entomology Research Division, Fargo
13085

Marshall, V G
Canada. dept. of Forestry and Rural Development, Ontario
13086

Martyn, E J
Tasmanian Dept. of Agriculture, Hobart
13313

Mason, S F
University of East Anglia, Norwich, England; School of Chemical Sciences
13512

Matsumura, F
Wisconsin. university; Dept. of Entomology
13462

Mau, R
College of Tropical Agriculture, Honolulu, Hawaii
13087

McDermot, H L
Defence Chemical Biological and Radiation Laboratories,; Ottawa
13463

McFarlane, J A
Slough. tropical Products Institute; Tropical Stored Products Centre
13314

McGrath, W T
Stephen F. Austin State Coll., Nacogdoches, Tex.; School of Forestry
13272

McNeill, J C
Brazoria County Mosquito Control District, Angleton, Tex.
13222

Merrett, P
Furzebrook Research Station, Wareham, England; Nature Conservancy
13088

Merriam, J R
California. institute of Technology; Biology Division, Pasadena
13191

Miller, J A
U. S. dept. of Agriculture. agricultural Research; Service, Kerrville, Tex.
13089

Miller, L K
Alaska. university; Institute of Arctic Biology
13090

Miller, L K
Alaska. university; Institute of Arctic Biology, College
13091

Misra, K C
Banaras Hindu University; Dept. of Botany, Varanasi
13351

Mitchell, H K
California. institute of Technology; Division of Biology, Pasadena
13093

Mohler, J D
Iowa. university; Dept. of Zoology
13192

Mohrig, W
Ernst-Moritz-Arndt-Univ., Greifswald, West Germany; Zoolischen Inst.
13094

Moomaw, J C
International Rice Research Institute, Los Banos, Laguna,; Philippines
13352

Moore, T C
Oregon. state University; Dept. of Botany and Plant Pathology
13485

Morris, M G
34 Oak Tree Close, St. Ives, England
13095

Morrison, J L
Salsbury Laboratories; Dept. of Biochemistry, Charles City, Iowa
13450

Mount, G A
U. S. dept. of Agriculture. agricultural Research Service; Entomology Research Division
13096

Moussa, M A
Fort Sam Houston. medical Field Service School; Dept. of Preventive Medicine; Entomology Branch
13097

Moussa, M A
Fort Sam Houston. medical Field Service School; Dept. of Preventive Medicine
13098

Mueller, N S
North Carolina. state University; Dept. of Embryology
13099

Murray, W D
Delta Mosquito Abatement District, Visalia, Calif.
13223

Musil, M
Slovak Academy of Sciences; Institute of Virology, Bratislava
13274

Muskett, A E
Belfast. queens University; Dept. of Mycology and Plant Pathology
13232

Namatov, T
USSR. academy of Sciences; fnstitute of Cytology, Leningrad
13416

Nariani, T K
Indian Agricultural Research Institute, New Delhi, India; Division of Mycology and Plant Pathology
13275

Narzikulov, M N
Tadjik Academy of Science, USSR; Inst. of Zoology and Parasitology
12977

Navai, S
Teheran. university; School of Public Health and Institute of Public Health; Research
13101

Nayar, J K
Florida. state Board Of Health; Entomological Research Center, Vero Beach
13102

Neilson, J T McL
Florida. university; Dept. of Veterinary Science
13417

Nelson, E E
Geigy Agricultural Chemicals, Ardsley, N. Y.
13316

Nelson, R R
Pennsylvania State University, University Park
13276

Nesheim, S
U. S. food and Drug Administration; Division of Chemistry and Technology, Wash. (city)
13513

New, T R
Ontario. research Institute, Belleville
13103

Nielsen, J L
Magna Mosquito Abatement District
13104

Nishimura, T
Kitasato University, Tokyo, Japan; Dept. of Chemistry
13514

Norris, J R
Shell Research Ltd, Sittingbourne, England
13105

Nur, U
Rochester. university; Dept. of Biology
13193

O'Brien, S J
Cornell Univ., Ithaca, N. Y.; Section of Genetics, Development, and Physiology
13194

Ohno, M
Toyo University; Biology Laboratory
12978

Okada, 1
Hokkaido. university; Dept. of Animal Science
13195

Olesen, M
Danish State Seed Testing Station, Copenhagen, Denmark
13353

Osaki, H
Kumamoto. city Senior High School
13106

Oyrzanowska-Poplenska, J
Poland. faculty of Veterinary Medicine; Dept. of Epizootiology, Warsaw
13393

Paddock, W C
Washington, 1323 28th St., N. W., (City)
13278

Pal, B P
Indian Council of Agricultural Research, New Delhi
13279

Pande, B P
U. P. Coll. of Veterinary Science and Animal Husbandry,; Mathura, India
13394

Papa, F
Algeria. institut Pasteur; Service des Enterobacteries
13395

Paradis, R O
Canada. ministere de l'Agriculture; Station de Recherches, Saint-Jean
13318

Parrott, W L
U. S. dept. of Agriculture, agricultural Research Service; Boll Weevil Research Laboratory, State College, Miss.
13107

Parsons, M C
Dept. of Zoology; Toronto University, Ontario
12979

Parsons, P A
Melbourne Univ., Australia; Dept. of Genetics
13108

Pearson, W D
Utah. state University
12980

Pechuman, L L
Cornell University; Dept. of Entomology and Limnology, Ithaca, N. Y.
12981

Peel, A J
Hull. university; Dept. of Botany, Englang
13486

Pennington, J H
Chester City Hospital, England; Public Health Lab.
13396

Pennington, N E
Brooke Army Medical Center, Fort Sam Houston, Tex.; Student Detatchment
13196

Perron, J P
Canada. ministere de l'Agriculture; Station de Recherches, Saint-Jean
13319

Perry, V G
Florida Univ., Gainesville; Dept. of Entomology
13340

Peterka, J J
North Dakota. state University; Division of Natural Sciences
12982

Petersen, J J
U. S. dept. of Agriculture. agricultural Research Service; Entomology Research Division, Lake Charles, La.
13109

Pettinari, C M
Stazione di Patologia Vegetale, Rome, Italy
13280

Pimentel, D
Cornell University, Ithaca, New York; Dept. of Entomology and Limnology
13110

Polatnick, J
U. S. dept. of Agriculture. agricultural Research Service; Animal Disease and Parasite Research Division; Plumisland Animal Disease Laboratory, Greenport
13397

Ponomarenko, A V
State Univ., Rostov-on-Don, USSR
13320

Postle, D S
Wisconsin Univ., Madison; Dept. of Veterinary Science
13398

Prakash, S
Chicago. university; Dept. of Zoology
13197

Prakash, S
Chicago. university; Dept. of Zoology
13198

Prakash, S
Lucknow. university; Dept. of Biochemistry
13354

Price, D K
American Association for the Advancement of Science
13355

Primost, E
Osterreichische Stickstoffwerke AG, Steyr, Austria; Landwirtschaftliche Versuchsstation
13487

Prout, T
California. university; Dept. of Life Sciences, Riverside
13199

Putman, W L
Canada Dept. of Agriculture, Vineland Station, Ontario
13111

Radewald, J D
California Univ. Agricultural Extension Service, Riverside; Dept. of Nematology
13341

Ramirez, C
New England Inst. for Medical Research, Ridgefield, Conn.
13399

Rao, K R
Zoological Survey of India, Calcutta
12983

Ratusky, J
Czechoslovak Academy of Sciences; Institute of Organic Chemistry and Biochemistry, Prague
13113

Rawson, J E
Wales. university; Dept. of Primary Industries
13356

Reichle, D E
Oak Ridge. national Laboratory; Radiation Ecology Seetion
13114

Richards, O W
Imperial College of Scienee and Technology, London
12984

Richards, W R
Canada Dept. of Agrieulture, Ottawa; Entomology Researeh Institute
12985

Richens, V B
Bureau of Sport Fisheries and Wildlife, Davis, Calif.
13427

Rings, R W
Ohio. agricultural Researeh And Development Center; Dept. of Zoology and Entomology, Wooster
13115

Riordan, F O
An Foras Taluntais, Kinsealy, Ireland; Horticulture and Forestry Div.
13281

Risby, E L
Meharry Medieal College; Dept. of Mierobiology, Nashville, Tenn.
13400

Ritchot, C
Canada. ministere de l'Agrieulture et de la; Colonisation; Station de Reeherches, Saint-Hyacinthe
12986

Rivosecchi, L
Rome. istituto Superiore di Sanita, Italy
12987

Roberts, H A
National Vegetable Research Station, Wellesbourne, Warnick,; England
13357

Roberts, P A
Oregon. state University; Dept. of Zoology
13200

Roberts, R H
U. S. dept. of Agriculture. agrieultural Researeh Service; Entomology Research Division, Stoneville, Miss.
13116

Roberts, R H
Agricultural Research Service, Stoneville, Miss.; Entomology Researeh Div.
13406

Robinson, G L
New Brunswick. University, Fredricton; Dept. of Biology
13117

Robinson, J
Shell Research Ltd., Sittingbourne, England; Tunstall Laboratory
13464

Rodman, T C
Columbia University; Dept. of Biologieal Sciences
13201

Rodricks, J V
U. S. food and Drug Administration.; Division of Food Chemistry and Technology, Wash. (city)
13465

Rohrinqer, R
Canada. dept. of Agriculture. researeh Station, Winnipeg
13282

Rota, P
Milan Univ., Italy; Istituto di Entomologia Agraria
13321

Rowell, C H F
Makerere Univ., Kampala, Uganda; Dept. of Zoology
13118

Rowell, J B
U. S. Dept. of Agrieulture; Agricultural Researeh Service; Crops Researeh Division
13234

Sabet, K
Cairo. university; Faeulty of Agrieulture
13283

Sakimura, K
Pineapple Research Institute of Hawaii
12988

Salceda, V M
Mexico. eomision Naeional de Energia Nuclear; Laboratorio de Genetiea
13202

Saliba, L J
Royal University of Malta, Malta; Evans Laboratories; Dept. of Biology
13526

Sanford, D A
Ryhope Hospital, Sunderland, England
13432

Sang, J H
Sussex. university; School of Biology
13203

Sankaranarayanan, K
Leiden. university; Dept. of Radiation
13204

Saul, G B
Darthmouth College; Dept. of Biologieal Sciences, Hanover, N. H.
13205

Scharloo, W
Groningen. rijksuniversiteit; Genetisch Institut
13206

Schedl, K E
Naturhistoriska Riksmuseum, Stockholm, Sweden
12989

Schenk, J A
Idaho University. college Of Forestry; Wildlife And Range Sciences, Moseow
13119

Scherf, H
Justus-Liebig-Universitat; Zoologisches Institut
13120

Schildknecht, H
Heidelberg University, Heidelberg, Germany; Institute of Organie Chemistry
13121

Schlegel, D E
California. university; Dept. of Plant Pathology, Berkeley
13285

Schneider, I
U. S. army. walter Reed Institute of Researeh; Dept. of Entomology, Washington (City)
13123

Scholefield, J
British Columbia. university; Dept. of Zoology
13207

Schroder, V N
Institute of Food and Agricultural Sciences, Gainesville,; Fla.; Florida Agricultural Experiment Station
13488

Sciuchetti, L A
Oregon. state University. school of Pharmaey; Dept. of Pharmaeognosy
13489

Scott, P C
California. university. crown College; Division of Natural Sciences, Santa Cruz, Calif.
13490

Setty, P N
Lueknow. university; Dept. of Biochemistry, India
13491

Shagov, E M
USSR. aeademy of Sciences; Institute of Evolutionary Morphology and Ecology of; Animals, Moscow
13124

Shahmatov, G H
Tadjik Academy of Scienee, USSR; Inst. of Zoology and Parasitology
13418

Sharma, M L
Sherbrooke, universite; Dept. de Biologie
13125

Sharma, R K
California. university; Dept. of Entomology, Riverside
13126

Sharma, S C
University of Sydney, Sydney, Australia; Dept. of Organic Chemistry
13516

Shaw, G D
Department of Primary Industries, Queensland, Australia; Entomology Seetion
13322

Sheridan, J J
An Foras Taluntais, Johnstown Castle, Ireland
13286

Shimahukurd, R H
U. S. dept. of Agrieulture. agrieultural Researeh Serviee; Crops Researeh Division, Fargo
13492

Shinkle, M P
Rutgers--The State University, New Brunswiek, N. J.
13128

Sikorowski, P P
Lake County Mosquito Abatement Distriet, Lakeport, Calif.
13129

Sinha, R N
Canada. dept. of Agrieulture. research Station, Winnipeg
13323

Siverly, R E
Ball State Univ., Muncie, Ind.
13224

Sjogren, R D
Northwest Mosquito Abatement Distriet, Riverside, Calif.
13225

Skoropad, W P
Alberta University, Edmonton, Canada; Dept. of Plant Science
13287

Smirnoff, W A
Canada. ministere des Peches et des Forets; Laboratoire de Rechereh es Forestieres
13324

Smith, C F
North Carolina. state University; Dept. of Entomology
12990

Smith, G E
Tennessee. valley Authority; Division of Health and Safety; Environmental Biology Branch
13226

Smith, L W
U. S. Army. natiek Laboratories; Pioneering Researeh Laboratory
13227

Smith, R J
U. S. dept. of Agrieulture. agrieultural Researeh Service; Crops Research Division, Stuttgart, Ark.
13358

Solomon, J D
U. S. dept. of Agrieulture. forest Service; Southern Hardwoods Laboratory, Stoneville
13326

Sorensen, K A
Kansas State University, Manhattan; Dept. of Entomology
13327

Sorsa, M
Helsinki. university; Dept. of Geneties
13208

Sorsa, M
Helsinki. university; Dept. of Geneties
13209

Sorsa, M
Helsinki. university; Dept. of Genetics
13210

Specht, H B
Canada. dept. of Agrieulture. research Station.; Kentville
13130

Spiess, L D
Northwestern Univ., Evanston, .Il.; Dept. of Biological Sciences
13131

Spofford, J B
Chicago. university; Dept. of Zoology
13211

St. Clair, A D
Oregon. state University; Environmental Health Seiences Center
13451

Stanley, C W
Midwest Research Inst., Kansas City, Mo.
13517

Starkov, O A
Tadjik Academy of Science, USSR; Inst. of Zoology and
12991

Steinkraus, K H
Cornell University. new York State Agricultural Experiment
12992

Sterzl, O
Lainzerstrasse 126, Haus 2/3, Vienna 1,3, Austria
12993

Stiner, F M
Delaware. university; Dept. of Entomology and Applied Ecology
13132

Stokes, G M
Jefferson Parish. mosquito Control District, La.
13527

Stover, R H
Tela Railroad Company, La Lima, Honduras; Research Dept.
13288

Striganova, B R
USSR. academy of Sciences; Institute of Evolutionary Morphology and Ecology of; Animals, Moscow
13133

Stryk, F G von
Canada Dept. of Agriculture Research Station, Harrow,; Ontario
13518

Taber, R A
Texas. A and M University. agricultural Experiment Station; Dept. of Plant Sciences
13493

Taft, H M
Entomology Research Division; U. S. dept. of Agriculture, Florence, South Carolina; U. S. Agricultural Research Service
13522

Tatsuta, K
Keio University, Tokyo, Japan; Faculty of Engineering; Dept. of Applied Chemistry
13519

Tauber, C A
Cornell University, Ithaca, New York; Dept. of Entomology and Limnology
12994

Tempe, J de
Official Seed Testing Station, Wageningen, Netherlands
13289

Tempe, J de
Official Seed Testing Station, Wageningen, Netherlands
13290

Thien, L B
Wisconsin. university; Dept. of Botany
13134

Thompson, G A
Jefferson County. mosquito Control District, Tex.
13228

Thompson, N R
Tasmanian Dept. of Agriculture, Hobart
13525

Thompson, S R
Notre Dame. University; Dept. of Biology and the Radiation Laboratory
13212

Thorsell, W
Royal Veterinary College; Dept. of Chemistry, Stockholm
13420

Tobari, Y N
Tokyo. metropolitan University; Dept. of Biology
13213

Tobin, J O
Withington Hospital, Manchester, 20, England; Public Health Lab.
13402

Tomich, P Q
Hawaii Dept. of Health, Honokaa; Plague Research Unit
13135

Tompkins, D R
Washington State Univ., Puyallup; Dept. of Horticulture
13494

Trainer, D O
Wisconsin. university; Dept. of Veterinary Science and Wildlife Ecology
13403

Traub, R
Maryland Univ. School of Medicine, Baltimore; Dept. of Microbiology
12995

Traut, H
Munster. universitat; Institut fur Strahlenbiologie
13214

Trojanowski, J
Maria Curie-Sklodowska University; Dept. of Biochemistry, Lublin
13495

Turner, R B
New Mexico. state University; Dept. of Botany and Entomology
13137

Tweedy, J A
Southern Illinois. university; Dept. of Plant Industries, Carbondale
13359

Ugolini, A
Osservatorio per le Malattie delle Piante, Bologna, Italy
13138

Ullstrup, A J
Purdue Univ., Lafayette, Ind.; Dept. of Botany and Plant Pathology
13291

Uma Bai, R
Madras Univ., India; Dept. of Biochemistry
13292

Valdovinos, J G
Wayne. state University; Dept. of Biology, Mich.
13496

Valiela, I
Cornell University; Section of Ecology and Systematics, Ithaca, N. Y.
13139

Van Emden, H F
Reading. university; Horticultural Research Laboratories, England
13329

Vance, B D
North Texas. state University; Dept. of Biology
13452

Vandehey, R C
St. Norbert College, West De Pere
13215

Varga, S
Canada. dept. of Fisheries, Halifax
13433

Vega, M R
Phillippines Univ., College Laguna; Dept. of Agricultural Botany
13360

Vega, M R
Phillippines Univ., College, Laguna; Dept. of Agricultural Botany
13497

Vickery, V R
McGill University; Lyman Entomological Museum, Montreal
13140

Vigna Taglianti, A
Rome. universita; Istituto di Zoologia
12997

Viktorov, G A
USSR. academy of Sciences; Institute of Evolutionary Morphology and Ecology of; Animals, Moscow
13141

Vinson, S B
Mississippi State Univ., State College; Dept. of Entomology
13142

Voigt, E
Research Institute of Viticulture, Budapest, Hungary
13330

Vojvodic, D
Institute for Viticulture, Sremski Karlovci, Yugoslavia
13293

Vyas, D N
Sardar Patel University, Vallabh Vidyanagar, Gujarat, India; Dept. of Chemistry
13498

Wagner, F
Schonbrunn, Austria
13342

Wallis, R C
Yale University School of Medicine; Dept. of Epidemiology and Public Health; Yale Arbovirus Research Unit
13143

Walter, J M
Florida. gulf Coast Experiment Station, Bradenton
13294

Wapensky, L A
U. S. department of Agriculture. denver Federal Center; Pesticides Regulation Division, Colo.
13454

Warren, M E
Lamar. state College of Technology; Dept. of Biology, Tex.
13144

Waters, T F
Minnesota Univ., St. Paul; Dept. of Entomology, Fisheries and Wildlife
13145

Watson, J A L
Australia. commonwealth Scientific and Industrial Research; Organization; Division of Entomology, Canberra
12999

Welty, R E
U. S. dept. of Agriculture; Market Quality Research Division, Hyattsville, Md.
13295

Whitten, M E
U. S. Dept. of Agriculture, Beltsville, Maryland; Market Quality Research Division
13466

Wilde, S A
Wisconsin University, Madison; Dept. of Soil Science
13361

Wildung, R E
Batelle-Northwest Laboratories, Richland, Wash.; Dept. of Environmental and Radiological Sciences
13520

Williamson, D L
Pennsylvania. woman's Medical College; Dept. of Anatomy
13216

Wilson, B H
Louisiana. state University; Dept. of Entomology
13146

Wilson, B H
Louisiana. state University. agriculture Experiment; Station; Dept. of Entomology, Baton Rouge
13407

Wilson, L F
U. S. Forest Service, East Lansing, Michigan; North Central Forest Experiment Station
13147

Witter, J A
Minnesota. university; Dept. of Entomology, Fisheries and Wildlife
13148

Wood, J C
Cooper Technical Bureau, Berkhamsted, England
13421

Woodard, D B
Agricultural Research Service, Lake Charles, La.; Entomology Research Div.
13149

Woolf, C M
Arizona. state University; Dept. of Zoology, Tempe
13217

Worthing, C R
Sussex. glasshouse Crops Research Institute, England
13331

Yadav, T D
Indian Agricultural Research Institute; Division of Entomology, New Delhi
13426

Yano, T
Iyo Agricultural High School, Japan
13000

Yarbrough, K
University of Southern Mississippi; Dept. of Biology, Hattiesburg
13218

Yates, J R
Hawaii University, Honolulu
13150

Yonke, T R
Missouri. university; Dept. of Entomology
13001

Young, J A
U. S. Agricultural Research Service, Reno, Nevada; Crops Research Division
13363

Yunus, A
Malaysia. ministry Of Agriculture and Co-Operatives; Division of Agriculture, Kuala Lumpur
13332

Zalasky, H
Dept. of Forestry and Rural Development
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